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Nunisco Resources Limited

Richardson Township Project Diamond Drilling Report

(March, 1996)

Rainy River District
Kenora Mining Division\

NTS 52 C/13
NTS 52 D/16



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NR-96-12
NR-96-13
NR-96-14
NR-96-15
NR-96-16
NR-96-17
NR-96-18
NR-96-19

1.⁰ Introduction

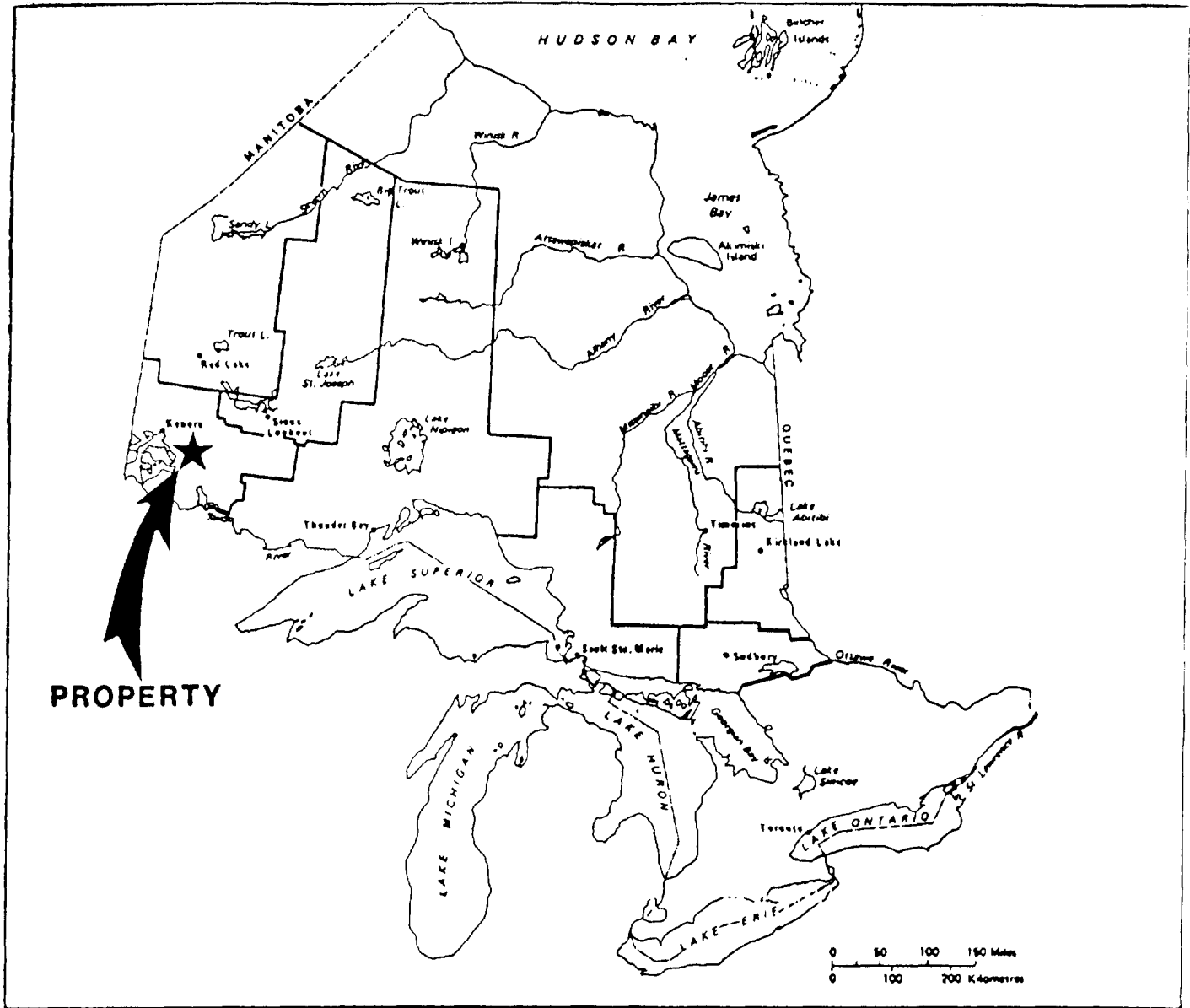
Nuinsco Resources Limited initiated a comprehensive exploration program in the Rainy River area following the release of results generated from a Canada - Ontario Mineral Development Agreement (COMDA) sponsored overburden drilling and sampling program. The government sponsored program identified several sample sites where glacial till was encountered with elevated gold grain content near bedrock in the Rainy River region. Of particular note were samples obtained from Richardson Township which included two boreholes with till intersections containing 202 and 54 gold grains. A particularly significant physical characteristic of these gold grains is the abundance of grains defined as pristine/delicate, an indication of minimal transport from bedrock source.

The impetus of the results of the program described above gave Nuinsco cause to examine other factors pertaining to the desirability of obtaining property in the region. Factors considered include:

- i) The presence of an anomalous number of gold grains in near bedrock tills and their apparent proximity to a bedrock source.
- ii) The discovery in 1991 of gold mineralization in quartz veins in Menary Township.
- iii) The limited previous exploration in the region, particularly within bedrock.
- iv) Areally extensive and often thick deposits of glacial debris which can provide an excellent medium in which to trace glacially derived dispersal trains from buried bedrock sources.
- v) The interpreted nearby presence of the Quetico Fault, a regional deformation zone with which gold mineralization is spatially associated in the Mine Centre area.
- vi) In Richardson Township particularly, but elsewhere also, the presence of a lithological transition from a lower tholeiitic mafic metavolcanic succession to a conformably overlying felsic-intermediate metavolcanic assemblage.
- vii) The interpreted (from LANDSAT imagery) and locally observed, presence of shear zones transecting metavolcanic stratigraphy.
- viii) The abundance of sulphide mineralization within the felsic-intermediate metavolcanic rocks in Richardson Township, and the common anomalous gold values from these units (with respect to the average gold values expected from such units).

A number of these factors combine to indicate that potential exists for the presence of buried, possibly structurally hosted, gold mineralization in the region. It is this thesis which the Nuinsco Resources exploration program is testing.

This report describes the results of one component of the Nuinsco exploration program, namely diamond drilling conducted in Richardson Township in March of 1996. This drilling comprises drill holes NR-96-12 through NR-96-20 inclusive, a total of 2169.41m. The holes were drilled to test diverse targets and stratigraphy in south Richardson Township, and the results are reported here for assessment purposes.



Nuinsco Resources Limited
RAINY RIVER GOLD PROJECT
REGIONAL LOCATION MAP

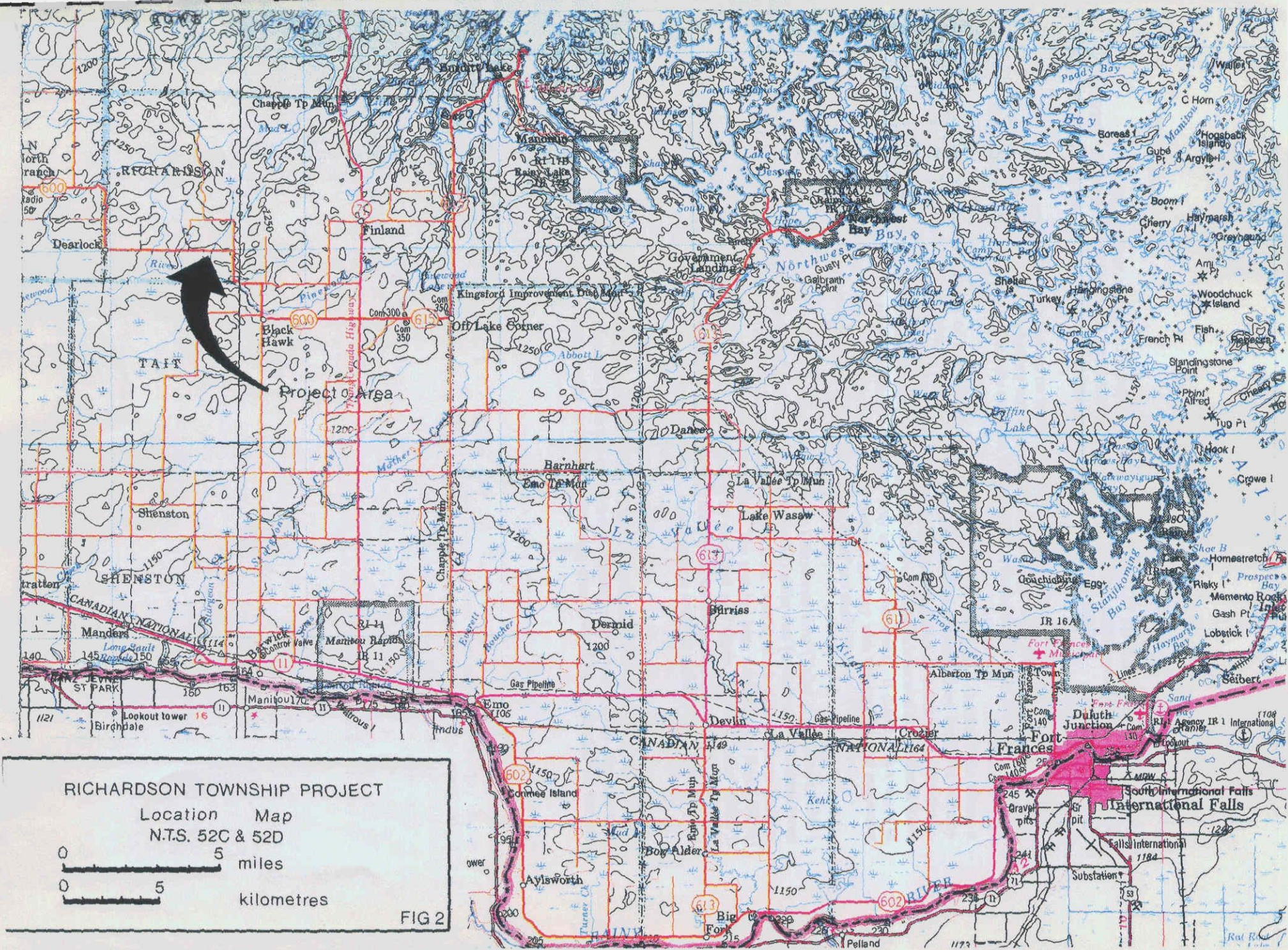
FIG. 1

2.0 Location and Access

The accumulated claims and options comprising the Rainy River Project property are located in northwestern Ontario in the Ministry of Natural Resources Administrative District of Rainy River, Kenora Mining Division. The area is located near both the border with Manitoba and the international boundary with Minnesota. The nearest population centre is Fort Frances, 50 km to the southeast; the villages of Emo and Nestor Falls are about 25km to the south and north respectively. The claim group is encompassed approximately by latitudes 48° 45'N to 49° 00'N and longitudes 93° 46'W and 94° 36'W. The property area is covered by N.T.S. maps 52 C/13 and 52 D/16. Nuinsco Resources Cameron Lake Mine is located approximately 40km to the northeast.

The Nuinsco Resources accumulated land position consists of a series of discontinuous blocks lying in an arcuate east-west band of some 60km length. The claimed ground is predominantly underlain by metavolcanic-metasedimentary terrain located approximately between the contact of the Sabaskong Batholith to the north, the Rainy River Batholithic Complex and other subordinate intrusions in the east and the interpreted location of the Quetico Fault to the south. The land position is located in the townships of Senn, Menary, Potts, Richardson, Tait, Sifton, Patullo, Nelles, Blue, Pratt, Spohn, and Attwood and Curran.

Access to most of the claim group is attained via the numerous all weather, secondary, provincial highways (gravel) and township roads which lead off of paved highways 11 and 71 and which traverse the region and provide excellent ingress to claims in the west and centre of the property area. Claims comprising the northeast component of the property group can be accessed by a combination of logging roads, provincial and township roads and for the most inaccessible claims in Menary Township, by boat or snowmachine.



RICHARDSON TOWNSHIP PROJECT
 Location Map
 N.T.S. 52C & 52D

0 5 miles
 0 5 kilometres

FIG 2

3.° Physiography

The Rainy River region is located within the Severn Upland of the Canadian Shield (Bostock, 1970). Generally the Precambrian surface, and the overlying Palaeozoic and Mesozoic strata to the west, dips at a very low angle to the southwest into the Williston Basin (Bajc, 1991).

Physiographically the landscape on which the Nuinsco claim groups are situated can be divided into two distinct domains separated by a sharp northwest-southeast trending break - the site of the Rainy Lake - Lake of the Woods Moraine, which locally traverses Rowe, Menary, Potts, and Fleming townships.

To the north and east of the moraine in the Beadle Lake and Off Lake - Burditt Lake areas, a Precambrian highland is only sparsely covered by glacial drift and is characterized by extensive outcrop exposure. This area has been subjected to only one of the most recent glacial advances (the Whiteshell - from the northeast) because of the elevated topography which prevented the advance of other glacial lobes from the west. Glacial drift attains significant thickness only in very local areas. It displays few signs of intense weathering (Bajc, 1991b). Relief is controlled by bedrock geology with the supracrustal sequences displaying positive relief relative to the batholithic complexes; relief can attain 90m.

The broad lowland, reduced to a peneplain during Cretaceous time (Teller and Blueule, 1983), which occurs to the south and west of the break has been subject to either two (central areas) or three (west areas) late-Wisconsinan glacial events. Here outcrop ranges from 5-40%, thick drift blankets bedrock surfaces and saprolites are commonly observed in boreholes. The area has been subdivided by Bajc (1991b) into two regions. Region 2a contains 30-40% outcrop by area, and may attain significant relief which is related to bedrock topography; areas separating outcrops are sites of extensive drift accumulation. In region 2b outcrop comprises less than 5% of the surface area, topography is low and undulating, drainage is poor, and peatland is common.

The area underlying the Richardson Township - Potts Township area lies at the margin of 2a and 2b topography. Large outcrop areas to the north and east provide the maximum relief. To the west and south small outcrop areas provide limited relief in extensive flat lying areas covered by substantial till and bog accumulations.

4.0 Exploration History

Although exploration activity in the area by individual prospectors dates back to the 1930's, documented exploration in Ministry of Natural Resources assessment files commences in 1967. Additional exploration programs are known to have taken place on private land, however record of assessment was not filed for this work.

In 1967 copper was recorded from a water well hole on the western shore of Off Lake. Consequently Noranda Exploration Company registered claims around the original discovery and performed mapping, geophysics, and diamond drilling; this activity met with limited success and the claims were allowed to lapse.

In 1971 International Nickel Company of Canada Limited conducted airborne and follow-up ground geophysics in the region as a whole; although there is no record of this work Inco did file a report on two diamond drill holes in Richardson Township in 1973. Reportedly one of these drill holes encountered anomalous gold values (D. MacEarchern, per. comm.).

In 1972 Hudsons Bay Exploration and Development carried out airborne geophysical surveys followed by claim staking and ground geophysics. In 1973 HBED drilled 54 diamond drill holes regionally to test 42 E.M. conductors, including anomalies in Tait Township, adjacent to the south of the Quetico Fault (Nelson, 1990). The principal target of this exploration was base metal and none of the work was filed for assessment purposes, although it is apparent that it was subsequently available to Mingold personnel.

In the mid 1980's exploration programs were mounted in Menary Township and the Off Lake area by several companies. Agassiz resources examined the potential for both base metal and gold in both area's with a program of mapping, stripping, sampling, and geophysics over two field seasons. In the process they discovered numerous showings of both gold and copper-zinc; note particularly what came to be termed the Agassiz Showing in Menary Township. In 1984 Lacana Mining Corporation undertook a single field season of mapping and sampling over an extensive area adjacent to Off Lake and Burditt Lake; no significant areas of mineralization were reported. Spartan Resources conducted an I.P. survey over a grid adjacent to the eastern shore of Off Lake in 1988. Anomalous responses were obtained from the survey but no further assessment is recorded, although unreported trenching, stripping and sampling was conducted at the site of the survey.

In 1989 Western Troy Capital Resources began a mapping and sampling program on claims staked in Menary Township which partly encompass the lapsed properties of Agassiz and HBED, and the gold and base metal occurrences discovered during those programs. Following initial exploration for base metals Western Troy discovered "several" native gold bearing, quartz veins late in 1991. The veins are at present interpreted to be the folded and boudinaged fragments of a single original vein. When sampled this zone returned an average of 1.4 oz/ton gold. Subsequently additional showings were discovered later in 1991 and during the 1992 season. Interestingly most of these veins are situated in the lowermost unit of the mafic stratigraphic succession of the area, in close proximity to the contact of the Sabaskong Batholith. A 250 ton bulk sample of the veins discovered in 1991 was conducted during the 1992 program; this was expanded to a reported 500 tons and completed in September of 1993. Additional, more ambitious, extraction was conducted throughout the 1994 field season (to December, 1994).

Considerable interest was generated in the area west of Finland following the release of the O.G.S. publication "Gold Grains in Rotasonic Drill Core and Surface Samples (1987-1988), Map No. P.3140. In 1989 Mingold Resources Inc. staked 85 claims and optioned property from 12 local landowners in three separate blocks in Richardson, Tait, Patullo, and Sifton townships. Between mid-1989 and late-1990 Mingold conducted a sampling program of the glacial drift by hand, backhoe trenching, and reverse circulation drilling. This work was accompanied by geological mapping and ground geophysics. Subsequently, a limited diamond drilling program consisting of three drill holes was conducted in Patullo Township based on these surveys; the results of this

drilling were inconclusive and the anomalous values obtained in the tills were generally unexplained. The Canadian activities of Mingold were terminated prior to complete assessment of all anomalous results.

Nuinsco Resources subsequently began to assemble a land position in the region in 1991, initially centred on the Richardson Township - Menary Township area. In 1993 the land position was expanded to include Crown Land in several townships extending west to the international boundary and currently Nuinsco has claims and options comprising some 25,000ha in the region.

Between the initiation of field work in June, 1993, and March, 1996 Nuinsco Resources has completed a Landsat linear study; local I.P., magnetometer, horizontal loop E.M., surface P.E.M., borehole P.E.M., surveys as well as additional interpretation of selected parts of the 1990 government sponsored regional airborne E.M.-mag survey; regional reconnaissance mapping and sampling; enzyme leach soil sampling; detailed grid mapping; outcrop stripping and trenching, four separate programs of rotasonic and reverse circulation drilling, comprising some 369 holes in total; diamond drilling in Menary, Senn and Richardson townships comprising 77 drill holes.

5.⁰ Claim Descriptions

The Nuinsco Resources Ltd. property group discontinuously spans 60km east to west and encompasses 25,087ha in total at time of writing. It is composed predominantly of mineral claims on Crown Land (20,521ha), with subordinate optioned patented ground (4,222.⁸⁹ha), and a License of Occupation from the Agricultural Rehabilitation Development Agreement (A.R.D.A., 353.10ha). The land position in its entirety falls within the jurisdiction of the Kenora Mining Division, Ministry of Natural Resources Administrative District of Fort Frances.

The assessment work conducted and detailed in this report, consists of diamond drilling. All of the work was carried out on patented options in Richardson Township. Claim boundary locations are included on fig. 1 in the pocket included with this report. The claims on which work was conducted during the mechanical stripping and trenching program are listed below.

Table 1. Claims on which Diamond Drill Holes were Collared

Township	Lot No.	Concession	Owner	Drill Holes
Richardson	S1/2,Lot 6	II	LaFever	16,17,18
	W1/2,Lot 6	I	Morrison	12,15
	Lot5	I	Jackson	13,14,19
	S1/2,Lot7	II	A.R.D.A.	20.

6.⁰ Regional Geology

The Nuinsco Resources claim groups are located in the 900km long by 150km wide granite-greenstone terrain of the Wabigoon Subprovince in the western Superior Province. Approximately 100km to the west of the property area the Archaean rocks of the shield are covered by Phanerozoic sedimentary strata in southern Manitoba and Minnesota. Much of the extreme southwest part of the Wabigoon, and particularly the area encompassing the Nuinsco land holdings has been reduced to a peneplain, the result of extensive Cretaceous erosion and weathering; this region is the site of extensive regolith accumulation comprised of (apparently) locally extensive saprolites, Quaternary glacial drift, and Recent accumulations.

The region has been the subject of several Ontario Department of Mines - Ontario Geological Survey mapping programs from which much of the geological descriptions are excerpted, these studies are listed below.

Table 2. O.D.M.-O.G.S. Reports Covering in the Rainy River Region

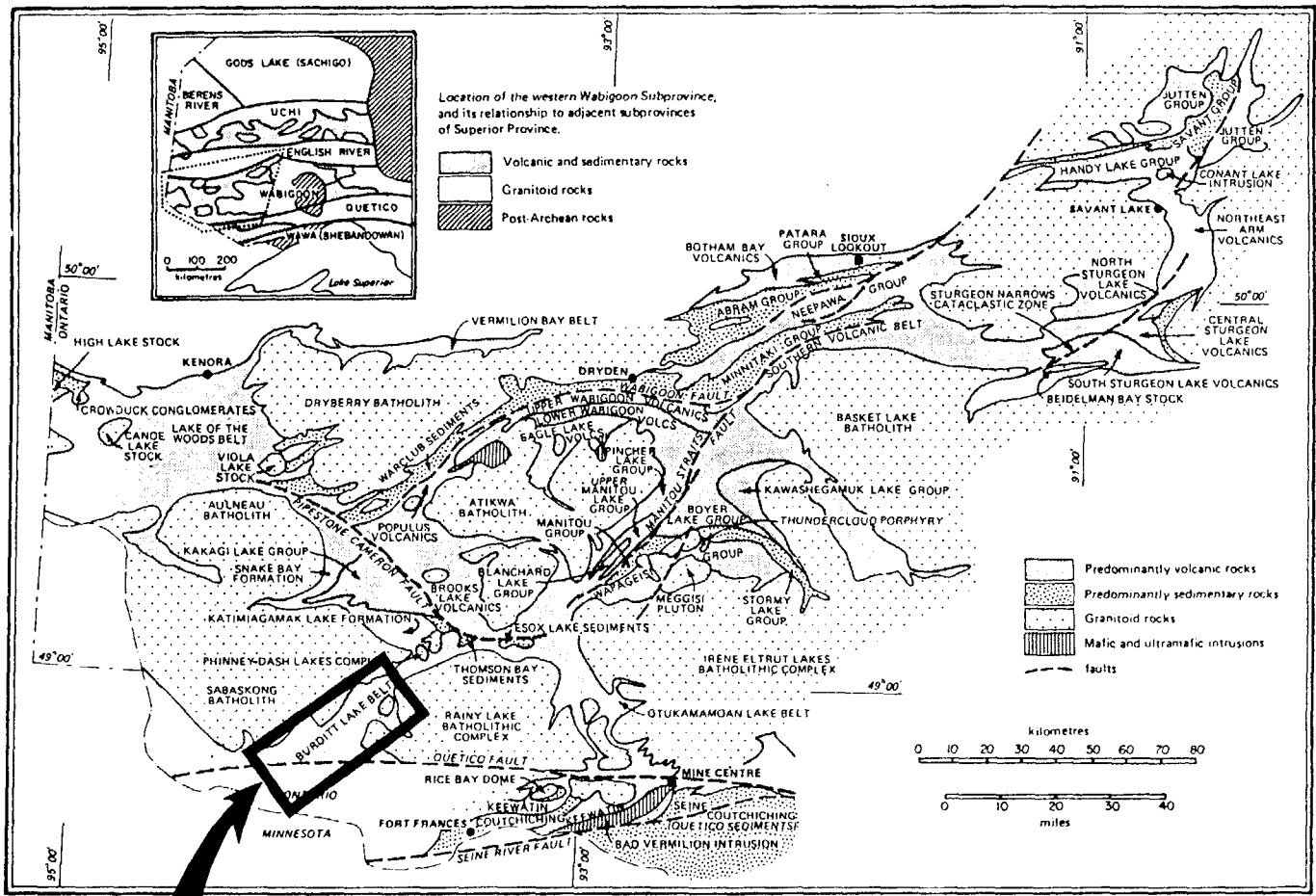
1954.	Fletcher and Irvine	O.D.M. Vol LXIII, part 5. The Geology of the Emo Area
1976.	Blackburn, C.E.	O.D.M. G.R.140. Geology of the Off Lake Burditt Lake Area
1983.	Edwards,	O.G.S. Rep. 201. Geology of the Bethune Lake Area.
1988.	Johns, G.	O.G.S. Map P3110. Geology - Rainy River Area.

6.¹ Precambrian Geology

The Western Wabigoon region underlying the Nuinsco claim groups is composed of supracrustal metavolcanic and metasedimentary rocks of the Rainy River Greenstone Belt (Blackburn et al., 1992). Syntectonic granitoid batholithic complexes (Sabaskong Batholith, Fleming Township Tronjhemites, Jackfish Lake Complex) occupy the northwest, northeast, and east of the region respectively. Late to post tectonic stocks such as the zoned Blackhawk, homogeneous Finland and inhomogeneous Burditt Lake as well as other unnamed intrusions are located within the boundaries of the greenstone terrain.

The extreme northwest of the region, centred around the north part of Burditt Lake and Pipestone Lake is underlain by submarine mafic flows and pre-tectonic, subvolcanic, quartz-hornblende gabbro and leucogabbro intrusions (Edwards, 1983). These rocks have been folded into the northeast trending Silver Lake Syncline, the axial trace of which is identifiable to Dad Lake in the north and to the contact of an apophysis of the Sabaskong Batholith near Tompkins Lake in the south. Rare occurrences of mafic to intermediate tuff (described as shaly to ashy, Edwards, 1983) occur within the metavolcanic package. Where mapped in the Burditt Lake area the metavolcanic succession is approximately 4-5km wide located between the Sabaskong Batholith to the northwest and the Jackfish Lake-Weller Lake Pluton to the southeast. Edward (1983) ascribed a crude zonation in the metavolcanic assemblage, consisting of a Lower Mafic Group of 300-900m thickness adjacent to the Sabaskong Batholith, overlain by a Middle Mafic Group.

The metavolcanic stratigraphy to the central part of the region extending south to the interpreted trace of the Quetico Fault has been subdivided on lithological grounds. In the north and west of the map area stratigraphy has been divided into six mappably distinct mafic tholeiitic units while in the south and east five distinct intermediate-felsic calc-alkaline units were identified. The underlying mafic members comprise approximately 2/3 of the metavolcanic pile and the overlying felsic-intermediate accumulations approximately 1/3. The true thickness of the entire sequence is estimated at approximately 4.⁵km, however the belt narrows to approximately 1.⁶km near the boundary between Richardson and Potts townships, and broadens to more than 10km as a result of



RAINY RIVER DISTRICT

**REGIONAL GEOLOGY
 WESTERN WABIGOON SUBPROVINCE AND ITS MARGINS**

Figure 4

Table 3

LITHOLOGIC UNITS

PHANEROZOIC

(A) Pleistocene and Recent

till, sand, gravel, clay, organic debris

-----Unconformity-----

PRECAMBRIAN

(B) Proterozoic

-Mafic Intrusive Rocks
-Diabase dykes

-----Intrusive Contact-----

(C) Archean

-Intermediate to Felsic, Intrusive Rocks

Equigranular trondhjemite, granitic dykes, equigranular monzonite and intrusive breccia

-----Intrusive Contact-----

-Felsic Metavolcanic Rocks

Medium grained to porphyritic rhyolite and dacite, quartz feldspar porphyry dykes

-Mafic to Intermediate Metavolcanic Rocks

Fine to medium grained basalt and andesite, gabbro, pillowed basalt, porphyritic basalt, pillowed and porphyritic basalt, pillowed variolitic basalt, spherulitic basalt, tuff, tuff breccia, and lapilli tuff

folding near the Sifton and Richardson townships boundary. The mafic volcanics are described as being composed of massive, porphyritic, and pillow lavas and gabbroic lavas (gabbro's?). The felsic-intermediate rocks are described as volcanic to subvolcanic and equivalent intrusive phases and are composed of pyroclastic breccias, lapilli tuffs, ash tuffs, and quartz-feldspar porphyries of often equivocal origin. The Sabaskong Batholith occupies the northwest portion of this area while the Rainy Lake Batholith and Fleming Township Tronjhemites. The late to post tectonic Blackhawk and Finland stocks have been intruded into the centre south of the map area, deflecting bedding radially around the intrusions.

In the west of the region (i.e. west of the Sifton-Richardson townships and Tait-Pattullo townships boundaries) preliminary mapping by Johns (1988) has crudely outlined metavolcanic stratigraphy, although mapping was greatly hindered by the lack of outcrop in this area extensively covered by glacial drift. The metavolcanic rocks are divided into two stratigraphic units. A lower mafic unit consisting of massive and pillowed mafic flows with local pillow breccia, hyaloclastite, and feldspar phyric flows, gabbro occurs in the extreme west, northeastern and southeastern portions. An upper diverse member conformably overlies the lower member and is composed of interbedded and interdigitated mafic and intermediate flows, debris flows, intermediate pyroclastics, wacke, and reworked tuff. In the eastern portion of this area volcanic derived metasediments (bedded wackes) occur and extend eastward.

The south and southeastern part of the region south of the Richardson-Potts-Fleming townships south boundaries was mapped by Fletcher and Irvine (1954). Felsic and intermediate metavolcanics occur in the south of the area in Dobie and Shenston townships (also in the north as the southern continuation of the metavolcanics mapped by Blackburn). These units are composed of quartz-feldspar porphyries, blocky fragmentals (agglomerate), and tuffs. Mafic metavolcanics occur in association with the felsic-intermediate members and are composed of fine to coarse grained flows and pillow lavas and associated interbedded mafic rich interflow metavolcanic sediments. Additionally, extensive wackes occur in two bands extending from west of the map area (see Johns, 1988) and interpreted to be the opposing limbs of a syncline; the bands are separated by a granitoid (graniodiorite) intrusion. The metavolcanic-metasedimentary stratigraphy is again intruded by numerous igneous bodies including the southwestern extensions of the Rainy Lake Batholithic Complex, as well as mafic intrusions such as the Dobie Intrusion and the Lash-Carpenter Intrusion.

Regional metamorphic grade is regarded as being generally of greenschist to low-mid amphibolite facies (although higher grades are noted by Johns in the west and Fletcher and Irvine in the south and west). Metamorphic grade, particularly adjacent to the late-post tectonic stocks may attain upper amphibolite with possible local partial remelting of the host rocks.

Structurally the region is complex with very incomplete elucidation of the structural elements in the west and south. Evidence of stratigraphic facing comes dominantly from the presence of pillows. In the extreme north the metavolcanic succession has been folded around the Sabaskong Batholith into the east-northeast trending Nightjar Anticline which is paired with the Slender Lake Syncline to the southeast. The Helena-Pipestone Lake Fault extends south to Dad Lake and in the north approaches the trace of the Pipestone-Cameron Fault. Continuing to the south the metavolcanic stratigraphy of the Offlake-Burditt Lake area are considered to form a southeasterly facing homoclinal sequence between the Sabaskong Batholith and the Burditt Lake Stock and the Fleming Township Tronjhemites. Farther to the west the metavolcanic-metasedimentary stratigraphy has been folded about the north-south axes of the southward plunging Deerlock Syncline which is paired with an unnamed anticline in Richardson Township. South of this area Johns (1988) has inferred the presence of a complex fold pattern, showing several anticline-syncline pairs which strike northeast curving to the east. Fletcher and Irvine (1954) infer the presence of three folds, two anticlines and a syncline with east to northeast striking axes - as with those mapped by Johns.

The southern part of the region is transected by the Quetico Fault, although the surface trace of the fault is only conjectured in the west. The fault is traceable for over 200km and in part defines the southern boundary of the Wabigoon Subprovince (to the east of the project region). Dextral transcurrent offsets are interpreted to be

the major movement, estimated to be upto 128km (Mackasay et al., 1974, Blackburn et al., 1992). A southerly splay from the Quetico is interpreted to strike northeast passing near the village of Stratton.

Well defined penetrative deformation is commonly observed on a regional scale. At the margins of intrusive bodies foliation/schistosity can be very strongly developed, striking tangentially to the contact of the intrusion.

6.2 Cretaceous Geology

Cretaceous Sediments occupy the Red River Valley and are observable in Manitoba, Minnesota, and North Dakota where they blanket older sediments that fringe the Williston Basin (Bajc, 1991b).

In the Rainy River region no exposures of Cretaceous age have been documented but an outlier of Cretaceous marine clay has been noted 65km south of Fort Frances, suggesting a more extensive pre-existing presence (Bajc, 1991b).

Middle Cretaceous, non-marine, fossiliferous, clastic sediments have been encountered in an O.G.S. borehole 7.5km northwest of Rainy River. Composed primarily of white to buff coloured, moderately sorted, silica sand and gravel the occurrence is located in a protected hollow, down-ice from prominent bedrock highlands.

Additionally, results from the Nuinsco 1995 overburden drilling program and preliminary results from the 1996 overburden drilling indicate more widespread occurrences of probable Cretaceous and possible Jurassic sediments from elsewhere in the Rainy River region.

Thick saprolites (of diverse protolith), presumed to be Cretaceous in age have also been documented, attaining in excess of 60m and encountered in several O.G.S. and Nuinsco overburden boreholes and diamond drill holes in the region, suggesting previously widespread residual soil over much of the Precambrian Shield, subsequently removed by Quaternary and Tertiary erosion (Bajc, 1991b).

6.3 Quaternary Geology

The youngest members of the stratigraphic succession are widely distributed, unconsolidated sediments which blankets the entire region, becoming very thick to the west.

Generally the unconsolidated sediments encountered are Late Wisconsinan tills. However reports in Bajc (1991b) indicate that pre-Late Wisconsinan tills have been preserved locally under significant Late Wisconsinan till cover and have only been observed in boreholes; they are interpreted to be Early Wisconsinan or perhaps Illinoian in age.

The oldest Late Wisconsinan deposits are attributed to an ice advance originating from the northeast (Labradorean Lobe, Laurentide Ice Sheet), and has been named the *Whiteshell Till*. This till is widely distributed as a discontinuous veneer and in bedrock depressions and in the lee of topographic highs (Bajc, 1991b). It is also concealed beneath younger tills and is observed in overburden boreholes in the west part of the study area. This till may contain 15-70% clasts with lithologies which closely reflect underlying bedrock type. The matrix is composed of sand and silt with only minor clay (Bajc, 1991b). Associated glaciofluvial sediments were deposited either subglacially or subaqueously and consist of stratified sands and gravels.

Overlying Labradorean derived drift are Keewatin derived tills which originated with ice advancing from the west, they extend east to the site of the present day Lake of the Woods-Rainy Lake Moraine. The Whitemouth Lake till is the oldest Keewatin derived till, it is composed of a sand-silt-clay matrix comprising 90-95% of the unit and containing generally <5cm pebbles of dominantly carbonate composition, although shale, siltstone and lignite are also noted.

The youngest till, again Keewatin derived, is the Marchand till which is deposited in the extreme west of the study area. It often is in direct contact with the Whitemouth Lake till or may be separated from it by upto several metres of glaciolacustrine sediment. The matrix is composed of sand-silt-clay (lower clay content than in the Whitemouth Lake till) and contains upto 10-20% clasts of similar composition to the pebble fraction in the Whitemouth Lake till.

Glacial deposition was complete by some time shortly after 11,600 years B.P. (date of the Whitemouth Lake till deposition - Bajc, 1991b). The initial phases of Glacial Lake Agassiz commenced around 11,500 years B.P. and the lake inundated parts of the region, depending on water level fluctuations, until 7,500 years B.P. Glaciolacustrine phases of deposition recognized in the region include pre-Lockhart (pre-Late Agassiz), Lockhart, Moorhead, Emmerson, Nipigon, and Ojibway phases. All phases consist of sand, silt, clay, glaciolacustrine-lacustrine sediments deposited between and above the previously deposited till horizons.

6.4 Recent Deposits

Extensive peat deposits occur throughout the study area, attaining 8m depth in the east near Fort Frances and generally thinning to the west. Radiocarbon dating gives a maximum age of approximately 5000 years for these deposits.

Finally recent alluvium, and eolian deposits are restricted to the floodplains of the major water courses. They are composed of organic rich sand, silt, and clay (Bajc, 1991b).

7.⁰ Local Geology

The local geology of Richardson Township and immediately surrounding areas is generally poorly understood because of the paucity of outcrop. As mapped by Blackburn (1976) and Johns (1988) the area is underlain by a thick succession of tholeiitic mafic volcanics which conformably passes into an upper diverse metavolcanic unit of often intermediate composition. Mapping and overburden drilling by Nuinsco have further served to elucidate the geology in the local area around central Richardson Township.

7.¹ Lower Mafic Succession

The most abundant metavolcanic rocks in the area are mafic metavolcanic massive and pillowed flows, flow breccias, tuff-hyaloclastite, and interflow and graphitic sediments (these units correspond with M3 and M5 members of Blackburn's (1976) six member mafic stratigraphic succession). They have been observed in the northern part of Richardson Township and are folded around the nose of an unnamed syncline (see plan XX). Consequently strike varies from approximately 45° on line 22+00E, to approximately 115° to the west of line 4+00W. Pillow tops comprise the sole criterium for stratigraphic facing and are consistent with the presence of a synclinal fold i.e. tops are to the southeast and south east of line 0+00 while on line 32+00W tops to the southwest were observed.

7.² Felsic-Intermediate Succession

Abundant lichen growth and uniform weathering have hindered detailed mapping of individual stratigraphic units within the upper diverse succession. Efforts to clean individual outcrops and subsequent diamond drilling indicate that stratigraphy within the upper diverse succession can be varied and complex. Certainly evidence from stripped outcrops indicates that numerous individual units comprise the stratigraphic assemblage and that as a result of subsequent deformation these units may be truncated, juxtaposed or folded. Wholerock analyses indicate that many of the members of this succession plot near the boundary between tholeiitic and calc-alkaline domains within dacite and andesite fields of the Jensen Cation Diagram.

As with the underlying mafic metavolcanic assemblage the felsic-intermediate rocks have been folded around the axis of the syncline. Abutting the western contact the Blackhawk stock, mapping, overburden and diamond drilling show these units to extend well to the west and northwest of earlier interpretations.

In addition to the quartz eye dacite fragmentals (crystal-ash tuff) which form the dominant portion of the succession, subordinate, intermediate, flows and intrusions occur and range from sub-metre to decametre widths. Thinner tuffaceous and sedimentary horizons, which may be siliceous, chloritic, argillic, or graphitic, and oxide facies iron formation have also been intersected in drill holes. In addition intercalated, fine grained, mafic flow/tuff horizons have been intersected in several drill holes throughout the predominantly intermediate stratigraphic succession; they are observed at surface between lines 6+00W and 10+00W near the 8+00S tieline. A subordinate but highly visible member of the succession is a matrix to fragment supported blocky fragmental unit with abundant groundmass chlorite which envelopes the more siliceous fragments. Typically these horizons contain 45%-50% SiO₂ and may contain upto 25% pyrite in bands that may crudely define bedding. These units weather to a gossan of dark brown to black and are very evident in outcrop. They are interpreted as debris flows.

A noteworthy feature of the upper diverse succession is the abundance of disseminated sulphide mineralization encountered, particularly within the quartz eye dacite unit. It is evident on weathered outcrop surfaces as ubiquitous rusty patches. In drill core the pyrite presents as fine disseminations and fracture fillings. As fracture fillings the sulphide is often associated with quartz, chlorite, and carbonate, probably implying a dominantly epigenetic origin. A pyrite content of approximately 2%-3% is common in an area, at surface, that is >2km by >1km. In addition very much subordinate pyrrhotite, sphalerite, chalcopyrite, galena, arsenopyrite and visible gold have been observed.

7.³ Felsic-Intermediate Intrusions

Abundant felsic-intermediate dykes were observed to transect the mafic stratigraphic succession. They are particularly abundant on the large outcrop area between 6E and 11E. Here they bifurcate and rejoin, striking generally at approximately 30° and ranging from decimetre to tens of metres in thickness. Textural and chemical similarities between these bodies and the intermediate metavolcanics stratigraphically above suggest that these dykes were feeders to the felsic-intermediate succession.

Texturally these dykes are massive and or quartz and feldspar phyric. They are white grey on weathered surfaces and medium grey on fresh surfaces. there is a strong similarity between the porphyritic dykes and the porphyritic flows upsection; in all probability these units have been confused with one another in places.

7.⁴ Mafic-Ultramafic Intrusions

Narrow (often sub-metre) mafic intrusions have been frequently been intersected in drill core. Generally the units are fine grained, massive to weakly feldspar phyric bodies with concordant and discordant contacts.

Diamond drilling has defined an irregular mafic-ultramafic body between lines 4+00W and 6+00W which is now known to extend from <-75m to >-200m depth. This body is zoned, grading northward from gabbro and high-MgO mafic rock in the south (stratigraphic top) to pyroxenite and dunite. The pyroxenite-dunite may contain intercumulate sulphide mineralization, locally comprising near 100% of the mode. Sulphides including pyrrhotite, pyrite, chalcopyrite, pentlandite, tellurides including merenskyite, michenerite and hessite and the arsenide sperrylite have been identified in hand specimen or with the use of an electron microprobe.

7.⁵ Black Hawk Stock

Where encountered the Black Hawk Stock is equigranular, coarse grained, unfoliated, pink-grey monzonite of the marginal phase of the stock. These outcrops tend to be larger than the metavolcanic ones and display significant positive relief.

The contact between the Black Hawk Stock and the enveloping metavolcanic rocks is generally unexposed. However numerous narrow aplite and rarely pegmatite dykes are observed to transect metavolcanic stratigraphy in proximity to the stock. These typically can be measured in decimetre to metre thickness.

7.⁶ Diabase

A Proterozoic diabase dyke is observed at in outcrop near the southwest corner of Lot 4, Concession I. It is approximately 10m thick, weathers to a medium brown colour, strikes 230° and dips near vertically. The strike extension of this diabase is inferred from intersections in drill holes on the north half of lots 5 and 6, Con I and the south half of Lot 6, Con II. Note that this dyke appears to have a sinistral offset of several tens of metres, occurring near line 2+00W.

7.⁷ Structural Geology

The area underlying the immediate Richardson Township area is interpreted to be folded about the nose of a south plunging anticline, paired with the Dearlock Syncline located approximately 3km to the west.

On the east limb of the anticline between lines 22+00E and 0+00 bedding measurements on the relatively abundant outcrop shows strike to be approximately 50° to 60°. The few measurements available between lines 0+00 and 8+00W show strike to be almost east-west. To the west of 8+00W no measurements are available but intersections obtained from overburden drilling and pillow facing obtained from an outcrop west of the map area are consistent with strike to the northwest. Where measured bedding varies from vertical to approximately 70°S

subvertical to the south although near the nose of the anticline dips may be much shallower - between 50° and 60° south.

Foliation approximately parallels bedding and is deflected around the nose of the fold. Planar fabrics are well developed throughout the volcanic pile except in the coarser grained gabbroic basalt and felsic-intermediate dykes. Intense foliation/schistosity is developed on the large intermediate-felsic outcrop on lines 19+00E and 20+00E adjacent to the Black Hawk Stock; the fabric parallels the inferred contact of the stock; but it is also often folded and contorted and envelopes dismembered, boudinaged veins and dykes within the deformed intermediate volcanics. The regional foliation trajectories are observed to deviate to the north and south around the Black Hawk Stock.

Preliminary results from diamond drilling show ubiquitous deformation of variable intensity. Although locally foliation/schistosity obscures or completely masks preexisting texture, these structures have not been traced from section to section. Stripping and cleaning of outcrops between lines 6+00W and 10+00W has uncovered a number of narrow (cm scale), Au anomalous, shears, striking 80°-115° and dipping 50°-60° south. Further, more diffuse deformation in a wider (approximatey dm scale) zone is noted from other trenches in the same area.

Faults are inferred in south Richardson Township based on lithological discontinuities and alteration observed in drill core. Magnetic discontinuities also imply faulting. Although more than one direction is assumed, N-S faults may significantly modify stratigraphy; an Au mineralized N-S fault is observed on the stripped outcrops near line 7+00W and N-S faults are inferred to offset lithologies near line 2+00W and 10+00W.

8.⁰ March 1996 Diamond Drilling

This report covers the results of diamond drill holes NR-96-12 through NR-96-20, drilled during March, 1996. In total 2169.41m of drilling was completed during the reporting period. Two drilling contractors were engaged during the winter program. Ultra Mobile Diamond Drilling of Surrey, British Columbia, drilled holes NR-96-12,15,16,17,18 and 20, using a thinwall BQ system. Bradley Brothers Diamond Drilling of Timmins, Ontario drilled holes NR-96-13,14, and 19, producing NQ core. All holes were collared on the Richardson Township grid. This grid is oriented N-S with offsets along the baseline at 100m intervals (locally 50m and 25m) where drilling was conducted, stations occur at 25m or 50m along the offsets.

Drill hole data is tabulated below in Table X., the drill logs are located in Appendix I, drill cross sections and the drill plan are located in the pocket. A brief description of the drill targets and results follows. At time of writing only a small proportion of the assay data had been received, it is not presented here.

The drilling conducted during the report period was collared on diverse targets, aimed at obtaining data from several different target areas.

Drill holes NR-96-12 and 15 were collared to intersect stratigraphy on strike from the anomalous Au bearing rock of the 17 Zone. These holes intersected predominantly quartz eye dacite pyroclastics, exhibiting strong saprolitic weathering at the bedrock interface. Well developed foliation was encountered in NR-96-12 with ubiquitous pyrite and minor sphalerite and chalcopyrite. Hole NR-96-15 intersected mafic (possibly ultramafic) volcanics intercalated with the dacite pyroclastics, however very little pyrite occurs and only planar fabric is developed.

Drill holes NR-96-13, 14 and 19 were collared to test the area around the 34 Zone mafic-ultramafic body. Drill hole NR-96-13 did intersect coarse grained pyroxenitic gabbro between 149.⁹⁰m-170.⁷⁹m; at the lower (downhole) contact fine grained pyrrhotite, pyrite, and chalcopyrite occurs as interstitial (intercumulate?) grains. The remainder of this hole intersected a mixed succession intermediate pyroclastic rocks and possible intermediate intrusions. The possible down-dip extension of the 17 Zone of Au mineralization was encountered in hole 13 between 273.¹⁵m-380.¹⁰m where disseminated and fracture filling pyrite with lesser sphalerite, chalcopyrite and galena occur. NR-96-14 was collared to intersect the eastern extension of the mafic-ultramafic body to the east of the diabase dyke. Apart from the diabase, essentially no mafic or ultramafic rock was encountered in this drill hole; implying offset across the diabase? Quartz Eye Dacite was encountered throughout the drill hole with locally well developed fracture filling sulphides composed of pyrite, sphalerite, chalcopyrite, and arsenopyrite - particularly between 124.⁴⁰m-226.³⁰m. NR-96-19, collared on line 6+50W to test the western extension of the mafic-ultramafic body. The target body was not intersected at all. The hole was collared in mafic metavolcanic rocks, intersecting a succession of mixed mafic flows and possible intrusions (with lesser intermediate metavolcanics) to a depth of 201m. From 201m to the end of hole at 329.¹⁰m hole 19 intersected intermediate metavolcanics (QID). Only very limited sulphide mineralization was encountered.

NR-96-16,17,18 were collared on line 16+00W. Hole 16 was collared to undercut a substantial single line mag. anomaly centred at 4+00N. This drill hole intersected mixed mafic and intermediate metavolcanic rocks: limited sulphide was noted but substantial magnetite occurs as disseminated grains in the mafic units - thereby explaining the mag. response. Drill hole 17 and 18 were set-up to undercut multiple enzyme leach soil sample anomalies. Hole 17 failed to obtain bedrock. Hole 18 intersected a mixed succession of mafic and intermediate metavolcanic units; lithologies and mineralization encountered do not appear to explain the anomaly.

Drill hole NR-96-20 was collared to intersect the strike extension of an I.P. response obtained to the west of this hole location. This I.P. response was found, when drilled 200m to the west, to be the site of strong brittle-ductile deformation within a dacite (and possibly andesite) fragmental succession with weak coincident disseminated sulphide mineralization (pyrite). Hole 20 intersected similar lithologies with well developed planar fabric developed between 18.⁴⁰m-75.⁰⁰m and containing disseminated pyrite.

Table 3:

Rainy River Project: Richardson Township Grid. Diamond Drill Hole Data - March 1996 Diamond Drilling Program											
DDH No.	Driller	Latitude metres	Departure metres	Inclination degrees	Azimuth degrees	Started	Completed	Depth metres	Casing	Claim No. Richardson Twp.	Comments
NR-96-12	UMDD	16+00W	3+25S	-55	000	01/03/96	09/03/96	276.45	Removed	W1/2, Lot6, Conl	Hole restarted
NR-96-13	BBDD	6+00W	7+75S	-75	000	03/03/96	10/03/96	474.20	Left	Lot5, Conl	
NR-96-14	BBDD	3+50W	6+75S	-65	000	10/03/96	22/03/96	334.00	Left	Lot5, Conl	Deepened 21/03-22/03
NR-96-15	UMDD	16+00W	4+75S	-55	000	12/03/96	15/03/96	191.11	Removed	W1/2, Lot6, Conl	
NR-96-16	UMDD	12+00W	3+25N	-55	000	16/03/96	19/03/96	212.50	Removed	S1/2, Lot6, Conll	Abandoned in OB
NR-96-17	UMDD	12+00W	6+75N	-55	000	20/03/96	22/03/96	0.00	Removed	S1/2, Lot6, Conll	
NR-96-18	UMDD	12+00W	6+75N	-60	000	22/03/96	25/03/96	185.01	Removed	S1/2, Lot6, Conll	
NR-96-19	BBDD	6+50W	8+75S	-75	000	23/03/96	27/03/96	323.93	Left	Lot5, Conl	
NR-96-20	UMDD	20+00W	2+50N	-55	000	27/03/96	29/03/96	172.21	Removed	S1/2, Lot7, Conll	

9.⁰ Conclusions

The diamond drilling that is the subject of this report comprises a small portion of an extensive and ongoing exploration program in Richardson Township and the Rainy River region as a whole, started in 1993. As such, any conclusions drawn from such a small component of the program may very well be out of context with respect to the results obtained from the other components. The principal reason for reporting this work is as assessment.

10.⁰

References

Bajc, A.F., 1991a. Till Sampling Survey, Fort Frances Area. Results and Interpretation. O.G.S. Study 56, 214pp, plus plans.

Bajc, A.F., 1991b. Quaternary Geology, Fort Frances - Rainy River Area. O.G.S. Open File Report 5794, 170pp, plus plans and sections.

Blackburn, C.E., 1976. Geology of the Off Lake - Burditt lake Area, District of Rainy River. O.D.M. Geoscience Report 140, 62pp, plus map.

11.⁰

Certificate of Qualifications

I, Paul Latimer Jones resident at 27 Briarmoor Crescent, Ottawa, Ontario, Canada, K1T 3G7, do hereby certify that:

- 1: I am a Consulting Geologist, since 1986.
- 2: I am graduate of Carleton University, Ottawa, 1982, with a B.Sc. (Hons.) in Geology.
- 3: I have been engaged in the study and practice of my profession since 1978.
- 4: I am a registered Fellow of the Geological Association of Canada.
- 5: This report is based upon onsite supervision of the Nuinsco Resources Limited exploration program in the Richardson Township area.

Dated at Emo, this First day of April, 1996.

A handwritten signature in black ink, appearing to read "Paul L. Jones". The signature is written in a cursive style with a large, sweeping initial "P".

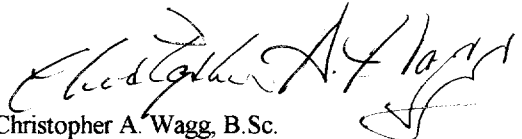
Paul L. Jones, B.Sc., FGAC.

Certificate of Qualifications

I Christopher Anthony Wagg of R.R. #1 (L.12, C.10) of the village of Denbigh, Ontario, K0H 1L0, do hereby certify that:

- 1: I hold a Bachelor of Science (Honours Geology) from the University of Western Ontario, received in May, 1989.
- 2: I have been self-employed as a geological exploration consultant since 1987, and have been practising my profession continuously since graduation.
- 3: I am president and sole shareholder in Wagg Mineral Exploration and Consulting Inc., created in 1991, which is a corporation in good standing under the laws of the Province of Ontario.
- 4: I personally performed the core examination and sampling, and directly supervised the sample collection and shipment for all drill holes for which my signature appears upon the logs.
- 5: I hold no interest directly or indirectly in the properties or securities of Nuinsco Resources Limited or affiliated companies, or in any adjacent properties, nor do I intend to acquire any such interest.

Dated at Emo, Ontario, this First day of April, 1996,


Christopher A. Wagg, B.Sc.
President, Wagg Mineral Exploration and Consulting

APPENDIX I

EXPLORATION DATA

DIAMOND DRILL HOLE LOGS

1996/4/4

Page 1

** BORSURV **

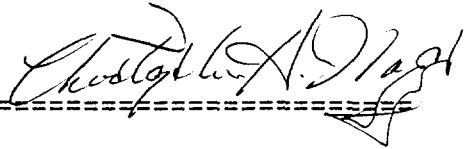
SURVEY DATA AND CALCULATED CO-ORDINATES (metres)

PROPERTY: Richardson
HOLE NO: NR9612
GRID: Rich

DATE: /03/96-09/03/96
SURVEY BY:
INSTRUMENT: Acid Test/Sperry Sun

COMMENTS:

Logged by C.A.Wagg
DDH drilled on claim Lot6,ConI, Richardson Twp.
Drill Contractor Ultra Mobile Diamond Drilling.



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DEPTH	INCLINATION	BEARING	EASTINGS	NORTHINGS	ELEVATION
0.00	-55.00	0.00	-1600.00	-325.00	0.00
39.63	-50.00	0.00*	-1600.00	-300.87	-31.44
154.57	-52.00	0.00*	-1600.00	-228.54	-120.77
214.07	-46.00	9.00	-1596.94	-189.63	-165.67
274.39	-45.50	12.00	-1589.27	-148.24	-208.88
276.45	-45.50	12.00*	-1588.97	-146.83	-210.35

<-- Interpolated Data * Not Measured + Assumed Reading

1996/4/4

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Page 1

SUMMARY LITHO LOG
PROPERTY: Richardson
HOLE No.: NR9612

=====

FROM	TO	C.A.	LITHOLOGICAL UNIT
0.00	37.05		OVb
37.05	43.30		QID, saprolite.
43.30	78.00		QID
78.00	78.35		QV, py, cpy, asp.
78.35	93.40		QID
93.40	118.25	75	QID, fol, py, cpy, gal.
118.25	171.00	72	QID, weak fol, py.
171.00	187.75	72	QID, fol, py, gal.
187.75	228.50		QID, py
228.50	253.20	72	QID, weak fol, py.
253.20	264.96	70	QID, fol, py.
264.96	267.45		Fel. Intrus.
267.45	276.45	80	QID, weak fol, py.

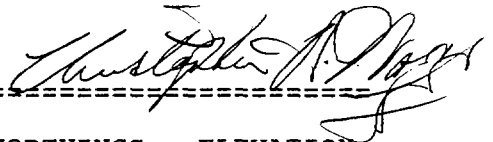
SURVEY DATA AND CALCULATED CO-ORDINATES (metres)

PROPERTY: Richardson
HOLE NO: NR9613
GRID: Rich

DATE: 03/03/96-10/03/96
SURVEY BY: D.M.E.
INSTRUMENT: Sperry Sun

COMMENTS:

Logged by C.A.Wagg
DDH drilled on claim Lot5,ConI, Richardson Twp.
Drill contractor, Bradley Bros. Diamond Drilling.



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DEPTH	INCLINATION	BEARING	EASTINGS	NORTHINGS	ELEVATION
0.00	-75.00	360.00	-600.00	-775.00	5.00
62.80	-72.50	356.00	-600.61	-757.44	-55.29
135.98	-69.50	356.00*	-602.28	-733.67	-124.48
196.95	-71.00	365.50	-602.01	-713.07	-181.87
257.93	-69.50	365.00	-600.12	-692.55	-239.26
318.90	-67.00	367.00	-597.76	-670.08	-295.89
379.88	-65.00	370.00	-594.09	-645.55	-351.60
437.81	-64.00	372.00	-589.33	-621.07	-403.88
474.20	-64.00	372.00*	-586.02	-605.47	-436.59

<-- Interpolated Data * Not Measured + Assumed Reading

1996/4/4

** BORSURV **

Page 1

SUMMARY LITHO LOG
PROPERTY: Richardson
HOLE No.: NR9613

=====

FROM	TO	C.A.	LITHOLOGICAL UNIT
0.00	18.85		OVb
18.85	44.80		QID, K alt.
44.80	47.35		QID, contam.?
47.35	52.15		QID
52.15	59.30		Int. QFP Intrus.
59.30	62.00		QID, tr py, sph.
62.00	77.40		Int. QFP Intrus.
77.40	83.30		QID, tr py, sph.
83.30	88.67		Int. QFP Intrus.
88.67	90.80		QID, py
90.80	99.08		Int. QFP Intrus.
99.08	105.15		QID, py, sph.
105.15	149.90		Int. QFP Intrus., py.
149.90	169.40		MUM
169.40	170.79		MUM, fg, po, py, cpy, mag.
170.79	192.90		QID, py.
192.90	200.05		Tuff/Sed., pyritic
200.05	204.40		QID
204.40	205.85		Tuff/Sed., pyritic
205.85	207.40		Dacite Ash Tuff
207.40	210.00		Tuff/Sed., pyritic
210.00	215.05		QID, py.
215.05	221.95		Int. QFP Intrus.
221.95	227.32		QID, py, tour, gar.

1996/4/4

** BORSURV **

Page 2

SUMMARY LITHO LOG
PROPERTY: Richardson
HOLE No.: NR9613

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FROM	TO	C.A.	LITHOLOGICAL UNIT
227.32	248.38		QID py,gar.
248.38	248.84		Maf. Dyke
248.84	254.10		QID py,gar.
254.10	254.55		Maf. Dyke
254.55	255.85		QID py,gar.
255.85	256.25		Maf. Dyke
256.25	257.52		QID py,gar.
257.52	257.83		Maf. Dyke
257.83	273.15		QID py,gar.
273.15	304.50		QID py,sph,gar.
304.50	348.00		QID py,sph,cpy
348.00	365.60		QID py, tr sph.
365.60	365.65		QV Au, py,sph,cpy,gal.
365.65	380.10		QID py, tr sph.
380.10	403.98		QID, QV, py.
403.98	404.56		Maf. Dyke
404.56	474.20		QID, py, tr sph,cpy.

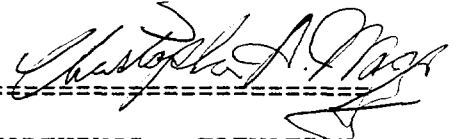
SURVEY DATA AND CALCULATED CO-ORDINATES (metres)

PROPERTY: Richardson
HOLE NO: NR9614
GRID: Rich

DATE: 10/03/96-13/03/96
SURVEY BY: D.M.E.
INSTRUMENT: Sperry Sun

COMMENTS:

Logged by C.A.Wagg
DDH drilled on claim Lot5,ConI, Richardson Twp.
Drill contractor, Bradley Bros. Diamond drilling.



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DEPTH	INCLINATION	BEARING	EASTINGS	NORTHINGS	ELEVATION
0.00	-65.00	0.00	-350.00	-675.00	10.00
53.66	-64.00	1.00	-349.80	-651.90	-38.43
114.63	-63.00	5.00	-348.37	-624.73	-93.00
175.61	-60.00	3.00	-346.34	-595.71	-146.59
236.35	-55.50	5.00	-344.08	-563.37	-197.96
334.00	-53.50	7.00	-338.16	-506.98	-277.46

1996/4/4

** BORSURV **

Page 1

SUMMARY LITHO LOG
PROPERTY: Richardson
HOLE No.: NR9614

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FROM	TO	C.A.	LITHOLOGICAL UNIT
0.00	6.70		OVb
6.70	49.65		Int. QFP Intrus.
49.65	51.25		QID, py
51.25	53.60		Maf. Dyke
53.60	61.00		QID, py, tr sph.
61.00	124.40		Diabase
124.40	208.75		QID, py, tr sph, asp, tour.
208.75	226.30		QID, sph, py, cpy, gal
226.30	228.50		Diabase
228.50	237.30		QID, py, sph, gar
237.30	238.12		Diabase
238.12	240.48		QID, py, sph, gar
240.48	241.73		Diabase
241.73	311.00		QID, py, tr sph, gar
311.00	334.00		QID, py, gar

1996/4/4

** BORSURV **

Page 1

SURVEY DATA AND CALCULATED CO-ORDINATES (metres)

PROPERTY: Richardson
HOLE NO: NR9615
GRID: Rich

DATE: 12/03/96-15/03/96
SURVEY BY: D.M.E.
INSTRUMENT: Sperry Sun

COMMENTS:

Logged by C.A.Wagg
DDH drilled on claim Lot6,ConI, Richardson Twp.
Drill contractor, Ultra Mobile Diamond Drilling.



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DEPTH	INCLINATION	BEARING	EASTINGS	NORTHINGS	ELEVATION
0.00	-55.00	0.00	-1600.00	-475.00	0.00
58.00	-60.00	0.00	-1600.00	-443.84	-48.92
120.00	-56.00	0.00*	-1600.00	-410.98	-101.50
164.00	-53.00	11.00	-1597.55	-385.55	-137.32
191.11	-53.00	11.00*	-1594.44	-369.53	-158.97

<-- Interpolated Data * Not Measured + Assumed Reading

1996/4/4

** BORSURV **

Page 1

SUMMARY LITHO LOG
PROPERTY: Richardson
HOLE No.: NR9615

=====

FROM	TO	C.A.	LITHOLOGICAL UNIT
0.00	13.70		OVB
13.70	44.50		QID sap.
44.50	44.80		QID, bx?, sap.
44.80	66.55		Maf. Vol., Kom?
66.55	81.75		Int. QFP Intrus., sap.
81.75	88.75		Int. QFP Intrus., sap.,py,asp.
88.75	98.46		Maf. Vol., sap.
98.46	102.37		QID, bleached, py
102.37	114.45		QID, mg-cg, tour,py
114.45	171.60		QID, tour,py
171.60	187.45		Dacite, fragmental?
187.45	191.11		QID

** BORSURV **

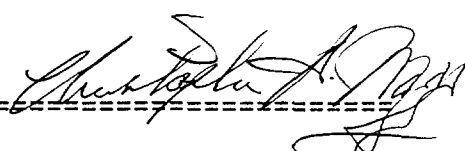
SURVEY DATA AND CALCULATED CO-ORDINATES (metres)

PROPERTY: Richardson
HOLE NO: NR9616
GRID: Rich

DATE: 16/03/96-19/03/96
SURVEY BY:
INSTRUMENT: Sperry Sun/Acid Test

COMMENTS:

Logged by C.A.Wagg
DDH drilled on claim Lot6,ConII, Richardson Twp.
Drill contractor, Ultra Mobile Diamond Drilling



=====

DEPTH	INCLINATION	BEARING	EASTINGS	NORTHINGS	ELEVATION
0.00	-55.00	360.00	-1200.00	300.00	9.00
32.60	-54.00	363.00	-1199.50	318.92	-17.54
93.60	-53.50	357.00	-1199.50	354.99	-66.73
154.50	-52.00	369.00	-1197.58	391.81	-115.21
209.40	-50.00	366.00	-1193.07	426.06	-157.88
212.44	-50.00	366.00*	-1192.86	428.00	-160.20

<-- Interpolated Data * Not Measured + Assumed Reading

1996/4/4

** BORSURV **

Page 1

SUMMARY LITHO LOG
PROPERTY: Richardson
HOLE No.: NR9616

=====

FROM	TO	C.A.	LITHOLOGICAL UNIT
0.00	12.05		OVb
12.05	19.60		Maf. Vol. (Porph)
19.60	39.64		Gabbro
39.64	44.60		QID
44.60	52.50		Maf. Vol.
52.50	56.90		QID
56.90	130.60		Maf. Vol.
130.60	142.22		QID
142.22	155.50		Maf. Vol.
155.50	159.78		QID
159.78	163.70		Maf. Intrus. (Vol.?)
163.70	165.05		QID
165.05	173.70		Int. Ash Tuff
173.70	177.50		QID
177.50	187.93		Int. Ash Tuff
187.93	193.80		QID
193.80	208.58		Int. Ash Tuff? Bx
208.58	212.44		QID

1996/4/4

Page 1

** BORSURV **


SURVEY DATA AND CALCULATED CO-ORDINATES (metres)

PROPERTY: Richardson
HOLE NO: NR9617
GRID: Rich

DATE: 20/03/96-22/03/96
SURVEY BY:
INSTRUMENT: Acid Test

COMMENTS:

Abandoned in overburden.
DDH drilled on claim Lot6,ConII, Richardson Twp.
Drill contractor, Ultra Mobile Diamond Drilling



=====

DEPTH	INCLINATION	BEARING	EASTINGS	NORTHINGS	ELEVATION
0.00	-50.00	0.00	-1200.00	675.00	15.00
35.00	-55.00	0.00*	-1200.00	696.31	-12.77

<-- Interpolated Data * Not Measured + Assumed Reading

** BORSURV **

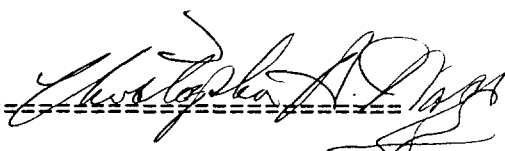
SURVEY DATA AND CALCULATED CO-ORDINATES (metres)

PROPERTY: Richardson
 HOLE NO: NR9618
 GRID: Rich

DATE: 22/03/96-25/03/96
 SURVEY BY:
 INSTRUMENT: Acid Test

COMMENTS:

Logged by C.A.Wagg
 DDH drilled on claim Lot6,ConII, Richardson Twp.
 Drill contractor, Ultra Mobile Diamond Drilling.



=====

DEPTH	INCLINATION	BEARING	EASTINGS	NORTHINGS	ELEVATION
0.00	-60.00	0.00	-1200.00	675.00	15.00
36.00	-57.00	0.00*	-1200.00	693.81	-15.70
113.00	-55.00	0.00*	-1200.00	736.87	-79.53
183.00	-54.00	0.00*	-1200.00	777.52	-136.52
185.01	-54.00	0.00*	-1200.00	778.70	-138.15

<-- Interpolated Data * Not Measured + Assumed Reading

1996/4/4

** BORSURV **

Page 1

SUMMARY LITHO LOG
PROPERTY: Richardson
HOLE No.: NR9618

=====

FROM	TO	C.A.	LITHOLOGICAL UNIT
0.00	34.55		OVb
34.55	37.20		Maf. Vol. (flow?)
37.20	39.70		Int. Xl Tuff
39.70	41.95		Maf. Vol. (flow?)
41.95	44.00		Mixed Maf.-Fel. Tuff
44.00	56.45		QID
56.45	59.93		Maf. Vol.
59.93	61.75		QID
61.75	63.86		Maf. Vol.
63.86	70.40		QID
70.40	72.87		Maf. Vol. (flow?)
72.87	108.40		QID
108.40	126.50		Maf. Vol. (flow?)
126.50	154.50		QID
154.50	156.58		Maf.-Int. Dyke
156.58	157.53		QID
157.53	173.88		Maf. Vol.
173.88	176.44		QID
176.44	182.95		Maf. Vol. (flow?)
182.95	184.60		QID
184.60	185.01		Maf. Vol. (flow?)

** BORSURV **

SURVEY DATA AND CALCULATED CO-ORDINATES (metres)

PROPERTY: Richardson
 HOLE NO: NR9619
 GRID: Rich

DATE: 23/03/96-27/03/96
 SURVEY BY: D.M.E.
 INSTRUMENT: Sperry Sun/Acid Test

COMMENTS:

Logged by C.A.Wagg
 DDH drilled on claim Lot5,ConI, Richardson Twp.
 Drill contractor, Bradley Bros. Diamond Drilling.

=====

DEPTH	INCLINATION	BEARING	EASTINGS	NORTHINGS	ELEVATION
0.00	-75.00	0.00	-650.00	-875.00	15.00
4.90	-75.00	0.00*	-650.00	-873.73	10.27
84.12	-74.00	1.00	-649.82	-852.56	-66.07
145.08	-73.00	4.00	-649.06	-835.26	-124.52
206.04	-72.50	2.00	-648.11	-817.21	-182.74
267.00	-72.00	4.00	-647.14	-798.65	-240.80
327.96	-71.00	6.00	-645.46	-779.38	-298.61
329.10	-71.00	6.00*	-645.42	-779.02	-299.69

<-- Interpolated Data * Not Measured + Assumed Reading

1996/4/8

** BORSURV **

Page 1

SUMMARY LITHO LOG
PROPERTY: Richardson
HOLE No.: NR9619

=====

FROM	TO	C.A.	LITHOLOGICAL UNIT
0.00	3.60		OVB
3.60	17.20		Maf. Vol., fg
17.20	48.17		Maf. Vol., mg-cg, mag.
48.17	48.92		QID
48.92	63.57		Maf. Vol., mg-cg, mag.
63.57	64.42	56	Lapilli Tuff, (Maf.-Int.)
64.42	66.97		Maf. Vol., mg-cg
66.97	68.15		Felsic Dyke
68.15	104.00		Maf. Vol., mg-cg
104.00	112.22		Maf. Vol., fg, py, mag.
112.22	122.80		Qtz.-Fsp. Xl Tuff (int?)
122.80	132.70		Maf. Vol., fg
132.70	145.50		Maf. Vol., fg, black-green, mag.
145.50	146.45		Int. Xl Tuff, (+chl-biot-amph)
146.45	149.45		Maf. Vol., fg
149.45	162.50		QID
162.50	201.30		Maf. Vol. (poss. Gabbro locally)
201.30	218.70		QID
218.70	230.36		Int. QFP Intrus.
230.36	288.95		Maf.-Int. Vol., mag., py
288.95	329.10		QID

1996/4/4

Page 1

** BORSURV **

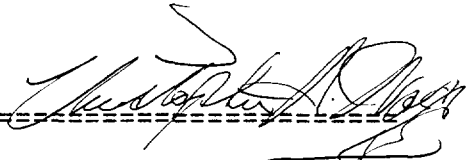
SURVEY DATA AND CALCULATED CO-ORDINATES (metres)

PROPERTY: Richardson
HOLE NO: NR9620
GRID: Rich

DATE: 27/03/96-29/03/96
SURVEY BY:
INSTRUMENT: Acid Test

COMMENTS:

Logged by C.A.Wagg
DDH drilled on claim Lot7,ConII, Richardson Twp.
Drill contractor, Ultra Mobile Diamond Drilling.



DEPTH	INCLINATION	BEARING	EASTINGS	NORTHINGS	ELEVATION
0.00	-55.00	0.00	-2000.00	250.00	5.00
20.42	-53.00	0.00*	-2000.00	262.00	-11.52
96.64	-50.00	0.00*	-2000.00	309.45	-71.17
172.21	-47.00	0.00*	-2000.00	359.52	-127.77

<-- Interpolated Data * Not Measured + Assumed Reading

1996/4/4

** BORSURV **

Page 1

SUMMARY LITHO LOG
PROPERTY: Richardson
HOLE No.: NR9620

=====

FROM	TO	C.A.	LITHOLOGICAL UNIT
0.00	18.40		OVB
18.40	75.00	67	QID, def,QV,py
75.00	126.60		QID
126.60	137.30		QFP Intrus.
137.30	172.21		QID

APPENDIX II

SUMMARY TABLE

EXPLORATION EXPENDITURES STATEMENT OF COSTS

EXPLORATION EXPENDITURES

Personnel

G. Archibald; Field Manager - 10 days @ \$500	5,000		
P. Jones; Senior Project Geologist - 20 days @ \$300	6,000		
Wagg Mineral Services; Core logger - 28 days @ \$250	8,247.77		
Damien Engelbrecht; Student; computerization -	3,525.28		
Oscar Brunell; Core splitter - 222 hrs @ \$17/hr	4,751.39		
Personnel field expenses (meals etc)	<u>4,882.56</u>		
		Total	\$ 32,407.00

Diamond Drilling

Bradley Bros. March 1 - 15th	56,219.00		
March 16 - 31st	28,561.00		
Ultramobile. NR96-12, 15	17,583.00		
NR 96-12	8,500.00		
NR 96-15, 16	16,841.00		
NR 96-17, 18	12,726.00		
NR 96-20	10,349.00		
Core trays	<u>1,029.51</u>	Total	\$151,808.51

Geophysics

G. Lambert; down-hole pulse EM	10,313.70		
Sperry Sun rental	1,575.00		
Magnetic susceptibility meter	1,920.55		
line cutting; 800 meters	<u>1,000.00</u>	Total	\$ 14,809.25

Assays

(assays not yet available)		Total	\$ n/a
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Support Costs

vehicles (x2)	1,250.00		
computer supplies, drafting, equip. rental	3,276.00		
accomodation (rental)	2,000.00		
office supplies	250.00		
fuel, core shack heating etc	5,000.00		
phone, fax, courier	<u>1,000.00</u>	Total	\$ 12,776.00

Total Exploration Costs: \$211,800.76
(Footage drilled 2,169.41 meters)

Cost/meter (March, 1996) \$97.63

APPENDIX II

SUMMARY TABLE 3

EXPLORATION EXPENDITURES STATEMENT OF COSTS

Drill Hole Number	Total Sample Numbers Assayed	Value¹
13, 14,	367	\$8,441
19	65	\$1,495
12, 15	192	\$ 4,416
16, 17, 18	96	\$ 2,208
20	45	\$ 1,035
	TOTAL	\$17,595

¹ \$23/assay

APPENDIX III

SUMMARY TABLES DRILL LOCATION INFORMATION

TABLE 1 Drill Hole Locations

Drill Hole No.	Grid Latitude	Departure	Depth	Work Dates (March)	Location
NR-96-12 ²	16+00 W	3+25 S -55°	276.45	1 - 5	Lot 6, Con. 1
NR-96-13 ¹	6+00 W	7+75 S -75°	474.20	3 - 10	Lot 5, Con. 1
NR-96-14 ¹	3+50 W	6+65 S -65°	334.00	10 - 22	Lot 5, Con. 1
NR-96-15 ²	16+00 W	4+75 S -55°	191.11	5 - 15	Lot 6, Con. 1
NR-96-16 ²	12+00 W	3+25 N-55°	212.50	16 - 19	Lot 6, Con. 2
NR-96-17 ²	12+00 W	6+75 N-55°	0 ³	20 - 22	Lot 6, Con. 2
NR-96-18 ²	12+00 W	6+75 N-60°	185.01	22 - 25	Lot 6, Con. 2
NR-96-19 ¹	6+50 W	8+75 S -75°	323.93	23 - 27	Lot 5, Con. 1
NR-96-20 ²	20+00 W	2+50 N-55°	172.21	27 - 29	Lot 7, Con. 2
			2,169.41		

¹ Drilling Company: Bradley Bros. Ltd.

² Drilling Company: Ultra Mobile Diamond Drilling Ltd.

³ Abandoned in overburden

TABLE 2 Meters Drilled, Richardson Township

Concession	Lot	Drill Holes	Meters
1	Lot 5, N1/2	13, 14	808.20
1	Lot 5, S1/2	19	323.93
1	Lot 6, W1/2	12, 15	467.56
2	Lot 6, S1/2	16, 17, 18	397.51
2	Lot 7, S1/2	20	<u>172.21</u>
			2,169.41

TABLE 3 Ownership

Concession	Lot	Parcel No.	Hectares	Owner	Date of Option
Con. 1	Lot 5, N1/2	5939	59.64	1	3/29/94
Con. 1	Lot 5, S1/2	5614	<u>63.94</u>		
			123.58		
Con. 1	Lot 6, W1/2	14407	64.74	2	8/06/93
Con. 2	Lot 6, S1/2	17110	63.12	3	5/17/92
Con. 2	Lot 7, S1/2	11912	63.94	4	7/01/93

-
- ¹ Jackson, B: Route 1, Box 656, Wyoming, Ill. USA 61491
- ² Morrison, J: 11 Forest Dr., Bethany ON L0A 1A0
- ³ LaFever, D: 2509 Sunrise Lane, Burlington, Iowa, USA 52601
- ⁴ ARDA: License of Occupation (Agricultural Rehabilitation and Development Directorate)

TABLE 4 Work Applied, Richardson Township

Concession	Lot	\$ Assessment Value
1	Lot 5, N1/2,S1/2	78,905
1	Lot 5, S1/2	31,625
1	Lot 6, W1/2	45,649
2	Lot 6, S1/2	38,808
2	Lot 7, S1/2	<u>16,813</u>
		\$ 211,800

APPENDIX IV

**GERARD LAMBERT - GEOPHYSICAL INTERPRETATION
DOWN HOLE PULSE EM SURVEY**



M E M O R A N D U M

To: George Archibald, Paul Jones,
Nuinsco Resources Ltd., Emo, Ont.

From: Gerard Lambert, Consulting geophysicist, Rouyn-Noranda

Re: DOWNHOLE PULSE E.M., holes 96-07, 96-08, 96-09, 96-11,
96-13, and 96-14.

Here are a few comments about the recent downhole P.E.M. surveys carried out in these six holes in Richardson Twp. (see appended Pulse E.M. profiles at 1:2,000), between March 9 and March 13. The loop which was used had dimensions 200m by 200m, between 675W and 475W and between 875S and 675S. The X-Y probe was found to be unserviceable when the crew attempted to use it and therefore only the Z (axial) component was read. A second transmit loop was however used for detailing purposes.

Discussion:

Hole 96-13, collared at 6+00W / 7+75S, was surveyed down to 473m and the P.E.M. data shows an off-hole anomaly at 220m-225m, a signature very similar to other off-hole anomalies observed in holes 96-01, 96-03, 95-40 and 95-37. The wavelength is relatively short in comparison to the amplitude and again the conductor size appears to be limited but its conductance is fairly high.

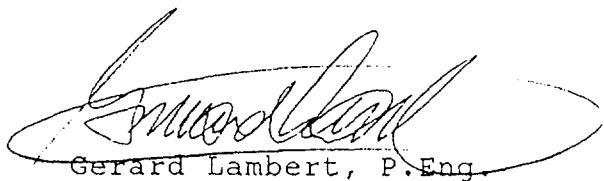
Hole 96-14, collared at 3+50W / 6+75S was surveyed with a collar loop which was also used as an East loop for holes 96-09 and 96-13. The P.E.M. survey in hole 96-14 produced flat, non-anomalous profiles, therefore indicating that no major conductive body exists in the immediate vicinity of this hole.

The off-hole anomalies in holes 96-09 and 96-13 were also repeated with the east loop, showing similar amplitudes and wavelength. There is consequently enough electrical continuity along this conductive body toward the east, a fact which is supported by previous results from both drilling and geophysics.

Based on the present results, there is no reason, from a geophysical standpoint at least, to drill other holes in the immediate vicinity of those which have been surveyed with downhole Pulse E.M. so far, because the lack of evidence for a large conductive body. The holes should be separated by distances of up to 200 meters, in order to take advantage of the searching capability of the Pulse E.M. method in exploring for a significant conductive sulphide body.

Other factors may influence these recommendations however, such as the presence of gold mineralization which may justify a tighter drilling mesh.

Should you want to further discuss any of the above points, just give me a call at (819) 762-3182.

A handwritten signature in black ink, appearing to read "Gerard Lambert", written over a horizontal line.

Gerard Lambert, P.Eng.

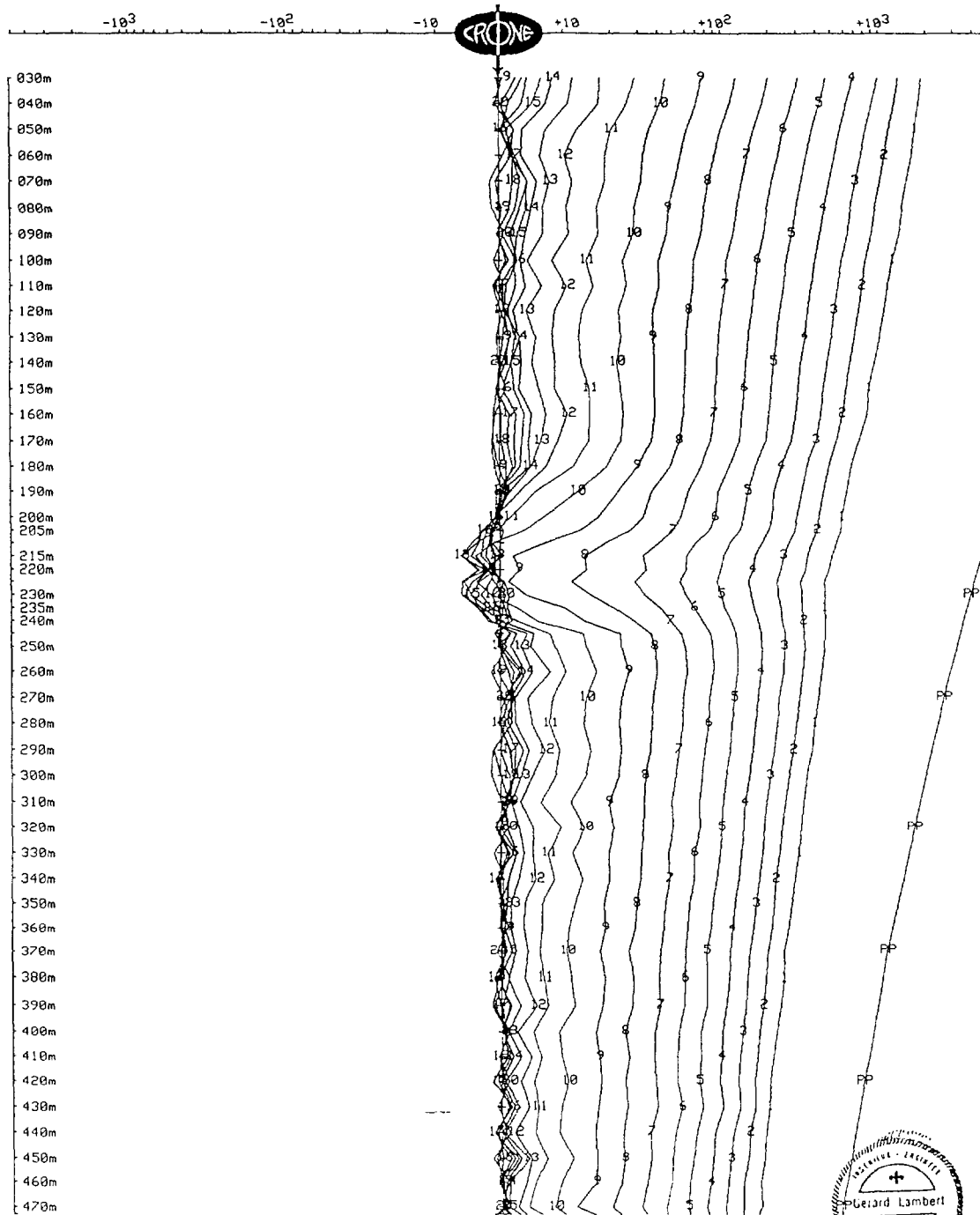
Consulting Geophysicist

CRONE GEOPHYSICS & EXPLORATION LTD
VAL D'OR GEOPHYSIQUE LTEE
BOREHOLE PEM

Client : NUINSCO
 Grid : RAINY RIVER
 Date : Mar 11, 1996

Hole : NR-96-13
 Tx Loop : 3
 File name : 9613.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP
 Scale: 1:2000

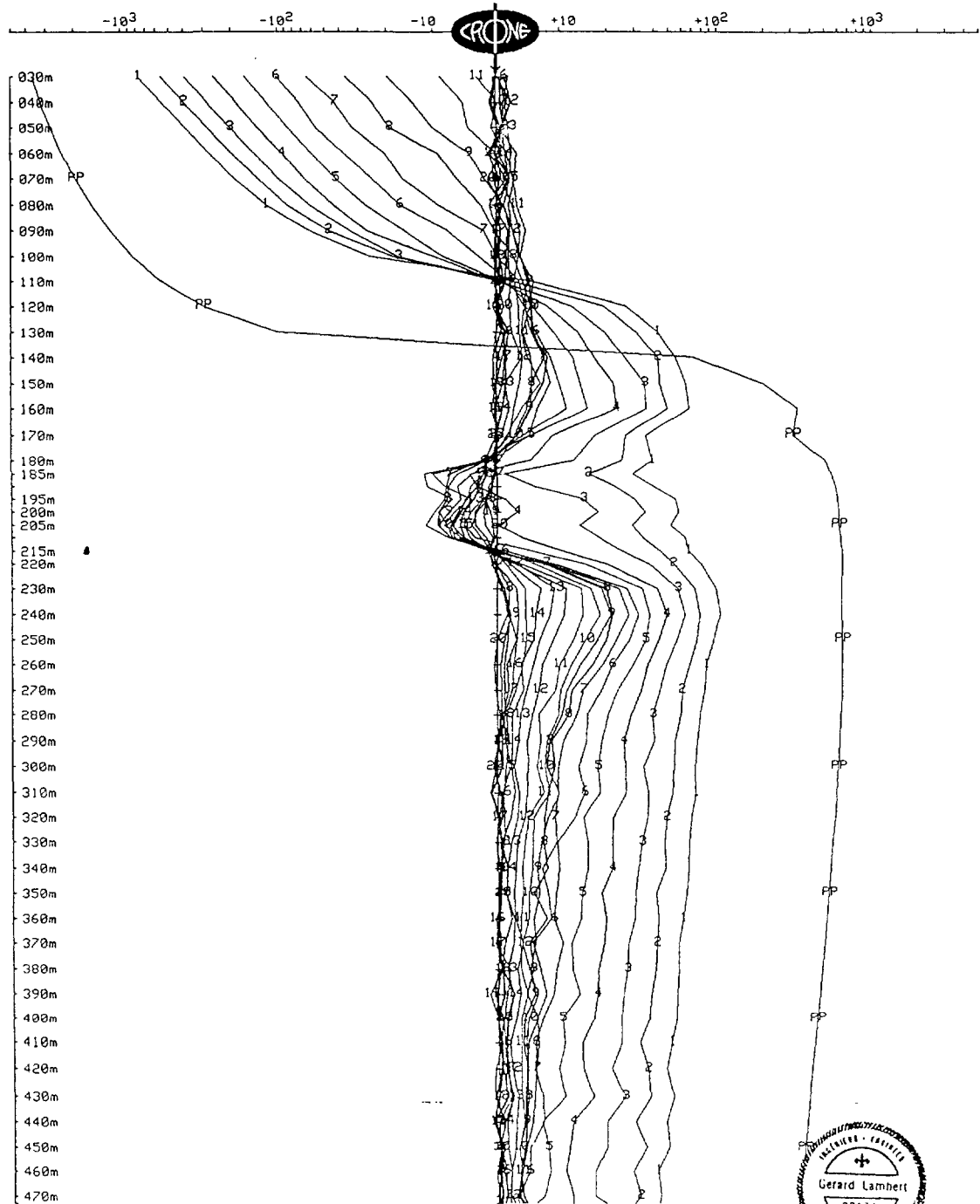


CRONE GEOPHYSICS & EXPLORATION LTD
VAL D'OR GEOPHYSIQUE LTEE
BOREHOLE PEM

Client : NUINSCO
Grid : RAINY RIVER
Date : Mar 12, 1996

Hole : NR-96-13
Tx Loop : 4 (EAST LOOP)
File name : 9613E.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP
Scale: 1:2000



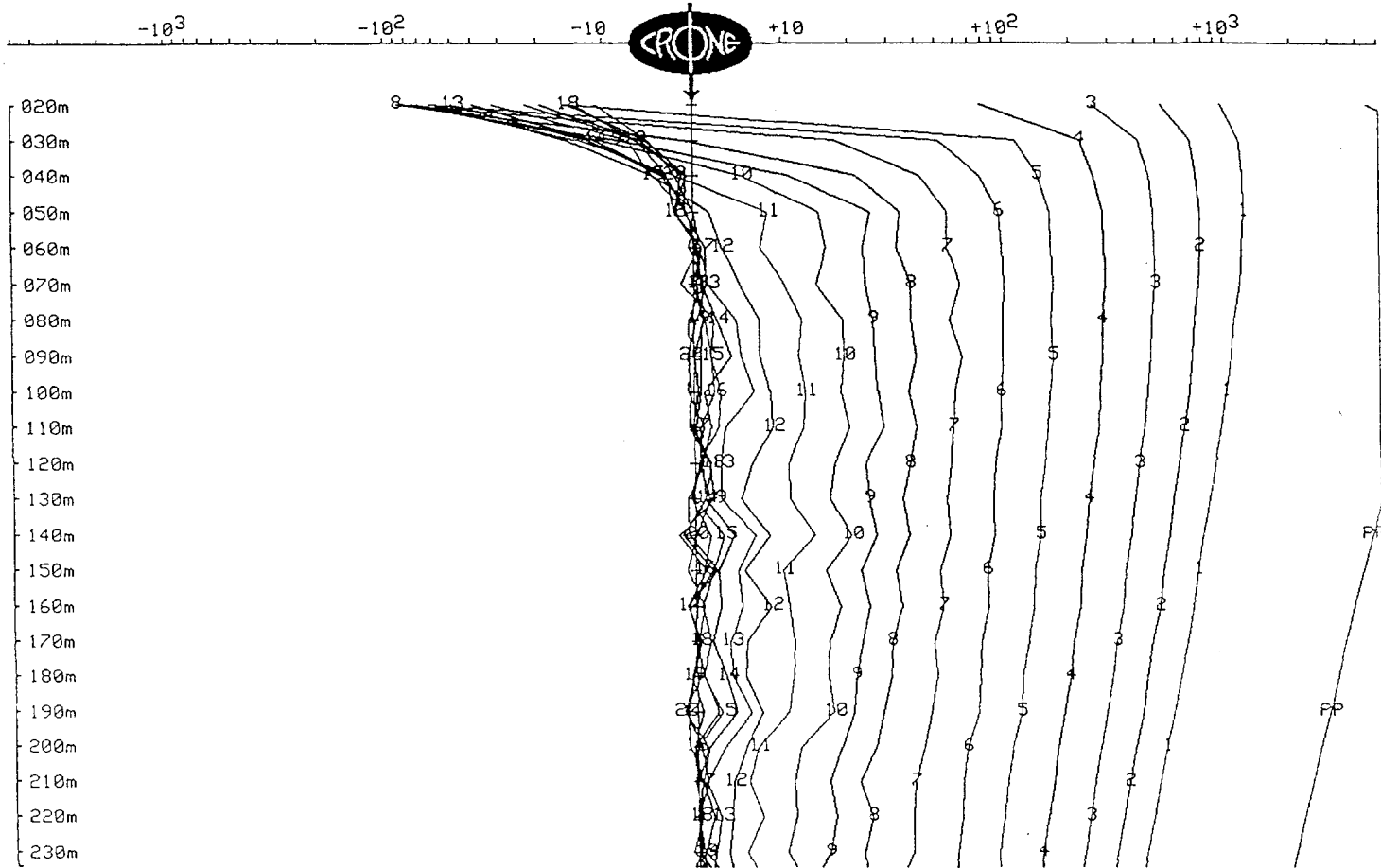
CRONE GEOPHYSICS & EXPLORATION LTD
VAL D'OR GEOPHYSIQUE LTEE
BOREHOLE PEM

Client : NUINSCO
 Grid : RAINY RIVER
 Date : Mar 13, 1996

Hole : NR-96-14
 Tx Loop : 4
 File name : 9614.PEM

Z COMPONENT dBz/dt nanoTesla/sec - 20 channels and PP

Scale: 1:2000



NUINSCO RESOURCES LIMITED

Richardson Township Project

(March 1996, Diamond Drilling Report Supplement)

Assays

**Rainy River District
Kenora Mining Division
N.T.S. 52 C/13 and 52D/16**

↪ From this report
Attached corrected copies ↪ yellow +
2 copies for reports

Paul Jones
Project Geologist

APPENDIX II

SUMMARY TABLE 3

EXPLORATION EXPENDITURES STATEMENT OF COSTS

Drill Hole Number	Total Sample Numbers Assayed	Value ¹
13, 14, 19	367	\$8,441
12, 15	65	\$1,495
16, 17, 18	192	\$ 4,416
20	96	\$ 2,208
	45	\$ 1,035
	TOTAL	\$17,595

*split up into
N 1/2 S 1/2*

¹ \$23/assay

APPENDIX III

SUMMARY TABLES DRILL LOCATION INFORMATION

TABLE 4 Drill Hole Locations

Drill Hole No.	Grid Latitude	Departure	Depth	Work Dates (March)	Location
NR-96-12 ²	16+00 W	3+25 S -55°	276.45	1 - 5	Lot 6, Con. 1
NR-96-13 ¹	6+00 W	7+75 S -75°	474.20	3 - 10	Lot 5, Con. 1
NR-96-14 ¹	3+50 W	6+65 S -65°	334.00	10 - 22	Lot 5, Con. 1
NR-96-15 ²	16+00 W	4+75 S -55°	191.11	5 - 15	Lot 6, Con. 1
NR-96-16 ²	12+00 W	3+25 N-55°	212.50	16 - 19	Lot 6, Con. 2
NR-96-17 ²	12+00 W	6+75 N-55°	0 ³	20 - 22	Lot 6, Con. 2
NR-96-18 ²	12+00 W	6+75 N-60°	185.01	22 - 25	Lot 6, Con. 2
NR-96-19 ¹	6+50 W	8+75 S -75°	323.93	23 - 27	Lot 5, Con. 1
NR-96-20 ²	20+00 W	2+50 N-55°	172.21	27 - 29	Lot 7, Con. 2
			2,169.41		

- ¹ Drilling Company: Bradley Bros. Ltd.
- ² Drilling Company: Ultra Mobile Diamond Drilling Ltd.
- ³ Abandoned in overburden

TABLE 5 Meters Drilled, Richardson Township

Concession	Lot	Drill Holes	Meters
1	Lot 5, N1/2,	13, 14	808.20
1	Lot 5, S1/2	19	323.93
1	Lot 6, W1/2	12, 15	467.56
2	Lot 6, S1/2	16, 17, 18	397.51
2	Lot 7, S1/2	20	172.21
			2,169.41

⇒ Split up into N¹/₂ S¹/₂

TABLE 1 Drill Hole Locations

Drill Hole No.	Grid Latitude	Departure	Depth	Work Dates (March)	Location
NR-96-12 ²	16+00 W	3+25 S -55°	276.45	1 - 5	Lot 6, Con. 1
NR-96-13 ¹	6+00 W	7+75 S -75°	474.20	3 - 10	Lot 5, Con. 1
NR-96-14 ¹	3+50 W	6+65 S -65°	334.00	10 - 22	Lot 5, Con. 1
NR-96-15 ²	16+00 W	4+75 S -55°	191.11	5 - 15	Lot 6, Con. 1
NR-96-16 ²	12+00 W	3+25 N-55°	212.50	16 - 19	Lot 6, Con. 2
NR-96-17 ²	12+00 W	6+75 N-55°	0 ³	20 - 22	Lot 6, Con. 2
NR-96-18 ²	12+00 W	6+75 N-60°	185.01	22 - 25	Lot 6, Con. 2
NR-96-19 ¹	6+50 W	8+75 S -75°	323.93	23 - 27	Lot 5, Con. 1
NR-96-20 ²	20+00 W	2+50 N-55°	172.21	27 - 29	Lot 7, Con. 2
			2,169.41		

¹ Drilling Company: Bradley Bros. Ltd.

² Drilling Company: Ultra Mobile Diamond Drilling Ltd.

³ Abandoned in overburden

TABLE 2 Meters Drilled, Richardson Township

Concession	Lot	Drill Holes	Meters
1	Lot 5, N1/2	13, 14	808.20
1	Lot 5, S1/2	19	323.93
1	Lot 6, W1/2	12, 15	467.56
2	Lot 6, S1/2	16, 17, 18	397.51
2	Lot 7, S1/2	20	172.21
			2,169.41

TABLE 3 Ownership

Concession	Lot	Parcel No.	Hectares	Owner	Date of Option
Con. 1	Lot 5, N1/2	5939	59.64	1	3/29/94
Con. 1	Lot 5, S1/2	5614	<u>63.94</u> 123.58		
Con. 1	Lot 6, W1/2	14407	64.74	2	8/06/93
Con. 2	Lot 6, S1/2	17110	63.12	3	5/17/92
Con. 2	Lot 7, S1/2	11912	63.94	4	7/01/93

1	Jackson, B:	Route 1, Box 656, Wyoming, Ill. USA 61491
2	Morrison, J:	11 Forest Dr., Bethany ON L0A 1A0
3	LaFever, D:	2509 Sunrise Lane, Burlington, Iowa, USA 52601
4	ARDA:	License of Occupation (Agricultural Rehabilitation and Development Directorate)

TABLE 4 Work Applied, Richardson Township

Concession	Lot	\$ Assessment Value
1	Lot 5, N1/2,S1/2	78,905
1	Lot 5, S1/2	31,625
1	Lot 6, W1/2	45,649
2	Lot 6, S1/2	38,808
2	Lot 7, S1/2	<u>16,813</u>
		\$ 211,800

W9610. 00056

APPENDIX I

EXPLORATION DATA

DIAMOND DRILL HOLE LOGS



52D16SE0001 W9610.00056 RICHARDSON

Nuinsco Resources Limited

DIAMOND DRILL LOG

PROPERTY: Richardson
 HOLE No.: NR9616
 Collar Eastings: -1200.00
 Collar Northings: 300.00
 Collar Elevation: 9.00
 Grid: Rich

Collar Inclination: -55.00
 Grid Bearing: 360.00
 Final Depth: 212.44 metres
 DDH drilled on claim Lot6,ConII, Richardson Twp.

Logged by: C.A. Wagg
 Date: 16/03/96-19/03/96
 Down-hole Survey: Sperry Sun/Acid Test
 Drill contractor, Ultra Mobile Dia

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS														
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb			
0	12.05	OVERBURDEN (OB) - casing.															
12.05	19.6	PORPHYRITIC MAFIC VOLCANICS (Porphyr. Maf. Vol.) - medium-coarse grained. Medium-dark grey green. Spotted with 5% white-grey subhedral feldspar phenocrysts, averaging about 1cm in diameter, but rarely to 3-4cm. 50-60% fine-med. grained groundmass fsp. 30-40% fine green amphibole +/- minor Chl. 3-5% fine black altered pyroxenes, locally to 5-10%. 1-2% altered olivine phenocrysts < 2mm. Trace qtz, likely as a result of alteration. - ALTERATION: Weak-mod. pervasive calcite alteration Moderate sausseritization of groundmass feldspar. Phenocrysts likely albitized. 3-4% fine-med. grained disseminated Py. Weakly magnetic in places. - STRUCTURE: Moderately foliated at 60-70 to CA. - 15.08-15.37, < 5mm wide calcite > qtz > Po stringer. - ALTERATION: 7-8% disseminated Py < 1% Po over interval. - STRUCTURE: Stringer < 5 to CA.	15.10	15.47	0.37	30.000	245.000	NIL	0.200	NIL	NIL	66.000	NIL	NIL			

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9616

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		17.75 to 19.6: Phenocrysts grey, unaltered, pyroxenes fresher and constitute 5-10% of rock. Groundmass generally finer and less altered as well.												
		ALTERATION: Same as above, weaker alteration.												
		STRUCTURE: Foliation 65-70 to CA.												
		COMMENTS: Interval with Po sampled for copper and nickel.												
19.6	36.64	POST-TETONIC FINE GABBRO INTRUSIVE (Post-tetonic Gabbro Intrus.) - fine grained. Medium grey-green. Technically porphyritic with 2-3% < 2mm black pyroxene phenocrysts. Unfoliated. 70-80% fine plagioclase, most lath-like. Total pyroxene 5-7%. Trace 1% altered olivine as round phenocrysts, now serpentine, rarely to 3mm. 10-20% fine green to black amphibole. Mafic silicates locally all pyroxene, no amphibole.												
		ALTERATION: Weakly-moderately magnetic in most places. 1-2% fine disseminated Py, trace 1% very fine magnetite.												
		STRUCTURE: Unfoliated, moderately fractured < 1/30cm on average, many at 50-60 to CA. Many with Chl +/- calcite cement. Both contacts chilled over several cm, and foliation parallel at 65-70 to CA.												

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS								
						Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		COMMENTS: Whole rock samples at 17, 21, 28, 31, 39m.												
39.64	44.6	<p>QTZ EYE DACITE CRYSTAL TUFF (QID, fg) - fine grained, light grey. < 1% sm.-med. sized, 1-3mm, dark grey qtz eyes. 5-10% mafic silicates, most as tiny lenses of amphibole +/- chl and qtz up to 2x 8mm, probably the result of breakdown of "eye-sized" mafic lapilli. Fragments are larger, up to 5 x 15mm, and mafic minerals present within groundmass below 43.25.</p> <p>ALTERATION: 1-2% fine disseminated Py. Weakly bleached, weakly-moderately sericitized. 1-3mm wide seams of chl +/- Py reseal some subconcordant to crosscutting fractures.</p> <p>STRUCTURE: Foliation 70-75 to CA, rarely to 80.</p> <p>COMMENTS: 3-4% qtz eyes up to .8 x 1.5cm over lowermost metre of interval.</p>												
44.6	52.5	<p>MAFIC METAVOLCANICS (Maf. Vol., fg-mg) - fine-med. grained. Med.-dark green. Thoroughly altered for several metres at both contacts. Probably intrusive in part.</p> <p>ALTERATION: Moderately chloritized mafic silicates, feldspar sausseritized. Weak pervasive calcite alteration. Calcite +/- Py resealing fractures as hairline, 5mm wide</p>	50.59	51.75	1.16	30.000	106.000	250.000	0.700	4.000	NIL	NIL	NIL	NIL

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		fillings.												
		STRUCTURE: Contact subconcordant, crosscuts foliation by < 5 degrees. Well fractured, with some sections broken enough to be called weakly brecciated.												
		46.25 to 48.50: Least altered weakly foliated interval. Resembles coarse massive flow or a fine gabbro 30-45% subhedral-euhedral whitish plagioclase < 1mm. 50-60% fine green amphibole, partly chloritized. 1-2% minute unaltered? black pyroxene, possibly enclosed within amphibole.												
		ALTERATION: Weakly magnetic throughout. Strongest where it is least altered. Gabbroic interval 2-3% very fine disseminated magnetite, from alteration? 3-4% fine-med. grained disseminated Py. Up to 7-8% dissemination to fracture controlled Py, within well altered portions.												
		STRUCTURE: Somewhat banded, 1-5cm scale, due to dominantly subconcordant calcite filled fractures, and variation in abundance and degree of alteration of plagioclase. Neither contact appears chilled. Lower contact foliation parallel 85 to CA.												
52.5	56.9	QTZ EYE DACITE CRYSTAL TUFF (QID, fg-mg) - similar to interval from 39.64-44.6, but with 2-3% sm.-med. sized qtz eyes, and without the clusters of mafic silicates.	54.37	54.66	0.29	10.000	16.000	90.000	0.200	16.000	NIL	NIL	NIL	NIL

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DIAMOND DRILL LOG

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HOLE No.: NR9616

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		<p>ALTERATION: Feldspars sausseritized for top 10cm of interval. Weakly sericitized throughout. 1-2% fine disseminated Py. 5-10 medium sized disseminated Py over lowermost .45m.</p> <p>STRUCTURE: Weakly foliated at 70-80 to CA.</p> <p>54.4 to 54.55: Crosscutting irregular walled qtz vein with non-parallel contacts.</p> <p>ALTERATION: Minor Chl, calcite. 5% black tourmaline, 1% Py, tr Cp, 2-3% k-spar. Wallrock sausseritized over 5-10cm.</p> <p>STRUCTURE: Both contacts average 30-40 to CA. Local foliation 75 to CA.</p>												
56.9	130.6	<p>ALTERED MAFIC METAVOLCANICS (Altered Maf. Vol.) - likely intrusive in part. Medium-dark green. fine-med. grained. Similar to interval from 44.6-52.5. Gabbroic in appearance where coarsest, but strongly altered throughout.</p> <p>ALTERATION: Py content variable, ranging from 1-2% up to 7-8% over .5m long intervals. Weak to strong calcite chlorite epidote alteration and sausseritization present throughout.</p>	60.29	60.56	0.27	20.000	67.000	88.000	0.300	1.000	NIL	NIL	NIL	NIL
			71.39	72.20	0.81	10.000	17.000	158.000	NIL	NIL	NIL	NIL	NIL	
			78.86	79.47	0.61	20.000	61.000	115.000	0.400	NIL	NIL	NIL	NIL	
			89.44	89.96	0.52	50.000	23.000	102.000	NIL	NIL	NIL	NIL	NIL	
			94.25	94.75	0.50	15.000	80.000	50.000	NIL	NIL	NIL	NIL	NIL	
			94.75	95.42	0.67	10.000	21.000	55.000	0.200	NIL	NIL	NIL	NIL	
			102.71	103.22	0.51	135.000	104.000	90.000	0.800	NIL	NIL	NIL	NIL	

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9616

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		STRUCTURE: Well foliated at 70-75 to CA. Amphibolite?												
		56.9 to 57.17: Fine grained, strongly chloritized, moderately banded. Weakly sheared?												
		ALTERATION: 3-4% fine-med. grained disseminated Py.												
		STRUCTURE: Contact 88 to CA.												
		57.17 to 58.01: Qtz eye dacite. Similar to interval from 52.5-56.9.												
		ALTERATION: 1-2% fine disseminated Py.												
		STRUCTURE: Foliation 75-80 to CA. Lower contact offset by fracturing, appears to be foliation parallel.												
		58.01 to 61.29: Same as 56.9-57.17.												
		61.29 to 61.48: Dacite inclusion?												
		ALTERATION: Moderately k-spar altered.												
		STRUCTURE: Subconcordant to fracture controlled contacts.												
		61.9 to 62.1: Dacite inclusion, no k-spar.												

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DIAMOND DRILL LOG

PROPERTY: Richardson
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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS										
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		ALTERATION: 1-2% fine Py.											
		.											
		61.48 to 64.0: Resembles fine grained gabbro. Magnetite content and grain size increasing with depth.											
		.											
		ALTERATION: Moderately chloritized. Weak calcite and epidote/sauserite alteration. 5-7% fine disseminated magnetite on average.											
		.											
		STRUCTURE: Foliation 75-80 to CA.											
		.											
		64.0 to 67.25: Porphyritic Gabbro. 2-3% altered fsp phenocrysts present occasionally exceeding 1cm in diameter.											
		.											
		ALTERATION: Phenocrysts weakly sausseritized. Groundmass fsp moderately epidote sausserite altered. 10-15% disseminated magnetite 1-2mm in diameter. 1-3% fine disseminated Py. Weak chloritization of amphiboles.											
		.											
		67.25 to 71.75: Med.-coarse grained. Strongly altered with up to 15%+ coarse grained disseminated magnetite, up to 4mm in diameter.											
		.											
		ALTERATION: 3-4% disseminated Py. Strong epidote sausserite alteration. Weak chloritization.											
		.											
		STRUCTURE: Foliation weak, 65-75 to CA.											
		.											

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS										
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		71.75 to 88.5: Qtz Gabbro to Diorite. Medium grained with 7-8% fine disseminated magnetite, and on average 4-6% sm.-med. sized deep blue qtz eyes. Up to 10% qtz eyes, locally over 10-30cm.											
		ALTERNATION: 3-5% fine-med. grained disseminated Py, to 8-10% locally over .5m. Weak-moderate chlorite and epidote-sauserite alteration.											
		STRUCTURE: Contact, if there is one, coincident with fracture controlled qtz stringer at 40 to CA. Up to 10-12% magnetite locally.											
		88.5 to 111.79: Single unaltered phenocryst at 86.4m. Similar to interval from 61.48-64.0. Includes two qtz gabbro dykes from 97.45-97.17 and 97.89-98.67, and qtz veins from 89.0-89.4 and 94.3-95.35.											
		ALTERNATION: 2-3% disseminated Py on average. 7-8% disseminated magnetite above 98.67. 3-5% disseminated magnetite below 98.67. Veins contain minor chlorite and calcite, tr-1% tourmaline and a few % k-spar in the larger vein.											
		STRUCTURE: Foliation 70-80 to CA. Dyke contacts marked by abrupt, over several cm, change in grain size and appearance of qtz eyes.											

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS														
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb			
		COMMENTS: tourmaline cluster, partly within chlorite over 3cm in diameter at 94.65.															
		.															
		103.02 to 103.16: Dacite inclusion? with subconcordant contacts.															
		.															
		ALTERATION: Trace 1% Py, tr Cp.															
		.															
		STRUCTURE: Foliation 70 to CA.															
		.															
		103.47 to 105.95: Fine grained qtz eye dacite crystal tuff with rare mafic lapilli to 1 x 5mm. Resembles 39.64-44.6.															
		.															
		ALTERATION: 1-2% fine disseminated Py within tuff subintervals.															
		.															
		STRUCTURE: Subconcordant contacts, almost foliation parallel. Foliation 65-70 to CA at lower contact.															
		.															
		109.40 to 110.2: Trace qtz eyes, for ash tuff.															
		.															
		STRUCTURE: Upper contact foliation parallel 75-80 to CA. Lower contact coincident with subconcordant qtz stringer.															
		.															
		111.79 to 114.81: same as 109.4-110.2.															
		.															

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS														
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb			
		STRUCTURE: Foliation 75 at top contact. 65 at lower contact.															
		114.81 to 130.6: Fine-med. grained gabbro with 3-5% fine dissemination magnetite. Resembles 61.48-64.0. Maximum grain size from 126-128m. Including 121-121.45. Green-brown in colour, medium grained, contains < 20% fine biotite. Apparently a concordant well altered pyroxene gabbro dyke.															
		ALTERATION: Moderate chloritization and epidote-sauserite alteration.															
		STRUCTURE: Foliation 70-90 to CA averaging 75-80.															
130.6	142.22	QID (QID, fg) - fine grained. 2-3% sm.-med. size qtz eyes. Fine crystal tuff. Possibly significant ash component above 135m.															
		ALTERATION: 1-3% fine disseminated Py, weakly sericitized.															
		STRUCTURE: Foliation 70-75 to CA at top contact. 65-70 to CA at 133m, 70-75 to CA below 138.5m.															
		139.1 to 139.95: Mafic lapilli tuff ? 50% chlorite, 50% calcite, apparently six discrete horizons, three															

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DIAMOND DRILL LOG

PROPERTY: Richardson
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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		consisting of fine grained mafic crystal tuff. . ALTERATION: Strong-intense Chl-calcite alteration. . STRUCTURE: Banded to spotted with lineated cigar shaped chloritic lapilli ?separated by calcitic matrix. Foliation 80-85 to CA, foliation parallel contacts.												
142.22	155.5	ALTERED MAFIC METAVOLCANICS (Altered Maf. Vol.) - similar to much of previous thick mafic intersection. Banded, spotted with disseminated magnetite. Whitish phenocrysts present in places. Finest, and generally most altered at margins. Resembles 56.9-130.6, but finer grained and without the qtz eye gabbro unit. . ALTERATION: Moderately magnetic throughout. Calcite cementing fractures. Moderate chloritization, weak calcite alteration throughout. . STRUCTURE: Foliation 70-80 to CA.												
155.5	159.78	QID (QID) - similar to interval from 130.6-142.22. 7-8% sm.-lg. qtz eyes 8mm diameter. Fine crystal groundmass above 158.8. Below 158.8, Ash groundmass with < 1% med.-lg. eyes. . ALTERATION: < 1% fine disseminated Py. Weakly												

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS													
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb		
		sericitized.														
		STRUCTURE: Margins and interval contact foliation parallel sharp, 75-80 to CA.														
159.78	163.7	ALTERED MAFIC INTRUSIVE? (Altered Mafic Intrus.) - possibly tuffaceous. Similar to interval from 44.6-52.5. Composed principally of Qtz eye gabbro, fine grained. Gradational lower contact into intermediate ash tuff.														
		ALTERATION: 3-4% fine disseminated magnetite. 3-4% fine-med. grained disseminated Py. Moderately Chl calcite altered.														
		STRUCTURE: Foliation 75-80 to CA. Top contact foliation parallel. Lower contact gradational over 10-20cm.														
163.7	165.05	INTERMEDIATE QTZ EYE ASH TUFF (Q10, fg) - fine grained, medium grey-green. Well foliated, weakly banded. 5% calcite +/- Qtz stringers fracture controlled. 1-2% small Qtz eyes. Groundmass, would be "dacitic" except that colour suggests it is about 30% very fine chlorite.	163.68	164.64	0.96	80.000	300.000	1860.000	4.000	5.000	NIL	NIL	NIL	NIL		
		ALTERATION: 5-7% Py, mostly along fractures, with or without calcite. Sp present along fracture < 2mm wide at 164.7.	164.64	164.85	0.21	240.000	730.000	2600.000	6.600	13.000	NIL	NIL	NIL	NIL		
		COMMENTS: 3cm of Qtz eye crystal tuff at lower contact.														

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
165.05	173.7	INTERMEDIATE ASH TUFF (Intermediate Ash Tuff) - similar to above interval but for absence of qtz eyes. Strongly fractured with calcite +/- sulphide fillings and a few mm of chloritized wallrock at contacts. Fractures subconcordant to crosscutting and contorted. 3-5% calcite fracture fillings. . ALTERATION: 4-5% Py on average up to 7-8% over .5m. Moderate pervasive calcite alteration. Pure calcite fillings up to 2 x 4cm in places. < 1% Sp in calcite-Py stringers from 166.25-166.58. Py, tr Po along stringer at 168m. 2-3% Po over 30cm at 168.5 in and adjacent to narrow? qv with subconcordant top contact. Lower contact < 20 to CA. . STRUCTURE: Banded, probably due to primary compositional variation. Foliation 75-80 to CA. Lower contact foliation parallel.	164.85	165.72	0.87	495.000	335.000	950.000	5.000	13.000	NIL	NIL	NIL	NIL
			165.72	166.23	0.51	160.000	230.000	800.000	2.900	18.000	NIL	NIL	NIL	NIL
			166.23	166.58	0.35	2480.000	335.000	2600.000	5.000	30.000	NIL	NIL	NIL	NIL
			166.58	167.75	1.17	65.000	215.000	360.000	2.400	11.000	NIL	NIL	NIL	NIL
			167.75	168.41	0.66	80.000	245.000	NIL	2.700	NIL	NIL	94.000	NIL	NIL
			168.41	168.76	0.35	30.000	355.000	NIL	2.000	NIL	NIL	59.000	NIL	NIL
			168.76	169.53	0.77	35.000	240.000	215.000	1.600	6.000	NIL	NIL	NIL	NIL
			169.53	170.12	0.59	30.000	275.000	293.000	2.300	6.000	NIL	NIL	NIL	NIL
			170.12	170.82	0.70	50.000	375.000	294.000	4.500	5.000	NIL	NIL	NIL	NIL
			173.7	177.5	QID (QID, fg) - very similar to interval from 155.5-159.78. 1-2% eyes, fine crystal groundmass above 176.25; trace eyes, ash groundmass below 176.25. Grades into intermediate ash tuff at about 177.5. . ALTERATION: Trace 1% fine Py.									

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9616

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FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS								
						Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		STRUCTURE: Well foliated at 80-85 to CA. COMMENTS: Lower contact somewhat arbitrary.												
177.5	187.93	INTERMEDIATE ASH CRYSTAL TUFF (Inter. Ash Crystal Tuff) - similar to interval from 165.05-173.7. Grades into crystal size groundmass at around 183.5. ALTERATION: 3-4% Py locally to 5-7% over 30cm where calcite filled fractures are abundant. STRUCTURE: Foliation 60-85 to CA.												
187.93	193.8	FINE QTZ EYE CRYSTAL TUFF (QID, fg) - Very similar to interval from 173.7-176.25. 3-4% sm.-med. sized eyes. ALTERATION: Weakly bleached, sericitized, < 1% Py. STRUCTURE: Foliation weak 75-85 to CA.												
193.8	208.58	BRECCIATED ALTERED INT. ASH TUFF (Brecciated Alt. Int. Ash Tuff) - or more likely poorly sorted coarse fragmental. Similar in colour, composition and texture to interval from 165.05-	204.13	205.16	1.03	30.000	120.000	195.000	0.500	NIL	NIL	NIL	NIL	NIL
			207.39	208.00	0.61	25.000	164.000	158.000	0.300	NIL	NIL	NIL	NIL	NIL

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9616

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS														
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb			
		173.7, except for < 5mm wide subconcordant chlorite rich "seams" separating pebble to bomb sized fragments? Appears somewhat sheared in places, possibly due to concentration of smaller fragments now < 1cm in thickness.															
		ALTERATION: Calcite filled fractures common to abundant. Groundmass strongly chloritized. 7-8% calcite fracture fillings, mostly randomly oriented, often interconnected, breccia-like. 2-3% fine disseminated Py. 1-2% very fine disseminated magnetite.															
		STRUCTURE: Foliation 70-80 to CA. Contacts sharp foliation parallel.															
		COMMENTS: Chloritic seams appear more likely to be mud and ash, interstitial to fragments rather than alteration along fractures. Fragments commonly 1-3cm thick rarely over 5cm.															
		207.03 to 207.45: Shattered interval of fine qtz eye dacite tuff.															
		ALTERATION: Weak bleaching, minor calcite along hairline fractures. Trace 1% Py.															
208.58	212.44	FINE QTZ EYE DACITE CRYSTAL TUFF (QID, fg) - similar to interval from 187.93-193.8. Somewhat banded due to bleaching along subconcordant fractures. < 5% fine mafic															

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9616

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ASSAYS

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
------	----	--------------------------	------	----	-------	--------	--------	--------	--------	--------	--------	--------	--------	--------

silicates, primarily chlorite.

.

ALTERATION: 1-2% fine disseminated Py.

.

STRUCTURE: Foliation parallel contact. Foliation 65-80 to CA.
75-80 to CA at 242.4.

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
32.60	-54.00	3.00
93.60	-53.50	357.00
154.50	-52.00	9.00
209.40	-50.00	6.00
212.44	-50.00	

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DIAMOND DRILL LOG

PROPERTY: Richardson

HOLE No.: NR9617

Collar Eastings: -1200.00

Collar Northings: 675.00

Collar Elevation: 15.00

Grid: Rich

Drill contractor, Ultra Mobile Diamond Drilling

Collar Inclination: -50.00

Grid Bearing: 0.00

Final Depth: 35.00 metres

Abandoned in overburden.

Logged by: C.A. Wagg

Date: 20/03/96-22/03/96

Down-hole Survey: Acid Test

DDH drilled on claim Lot6, ConII, Richard

		LITHOLOGICAL DESCRIPTION	ASSAYS		
FROM	TO		FROM	TO	WIDTH
DOWN-HOLE SURVEY DATA					
		DEPTH	INCLINATION	BEARING	
		35.00	-55.00		

Nuinsco Resources Limited

DIAMOND DRILL LOG

PROPERTY: Richardson
 HOLE No.: NR9612
 Collar Eastings: -1600.00
 Collar Northings: -325.00
 Collar Elevation: 0.00
 Grid: Rich

Collar Inclination: -55.00
 Grid Bearing: 0.00
 Final Depth: 276.45 metres
 DDH drilled on claim Lot6, ConI, Richardson Twp. Drill Contractor Ultra Mobile Di

Logged by: C.A. Wagg
 Date: /03/96-09/03/96
 Down-hole Survey: Acid Test/Sperry Su

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS								
						Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
0	35.67	OVERBURDEN (OB) -												
35.67	264.96	Q1D (Q1D, fg-mg) - Fine to medium grained, light grey, commonly spotted with 5-20% disseminated, crystalline calcite, less than or equal to 2mm. Contains 1-3% generally small qtz eyes. Deeply weathered and vuggy in places above 43.3m.	37.35	37.85	0.50	45.000	30.000	80.000	0.800	NIL	NIL	NIL	NIL	NIL
		.	37.85	38.89	1.04	105.000	165.000	96.000	3.400	NIL	NIL	NIL	NIL	NIL
		ALTERATION: 1-2% fine disseminated. Py.	38.89	39.16	0.27	190.000	620.000	330.000	4.600	3.000	NIL	NIL	NIL	NIL
		.	45.45	45.83	0.38	40.000	18.000	145.000	1.600	58.000	NIL	NIL	NIL	NIL
		STRUCTURE: Weakly-mod banded due to concentration of Chl +/- sericite along foliation parallel to subconcordant slips/fractures.	52.00	52.38	0.38	25.000	15.000	125.000	1.000	76.000	NIL	NIL	NIL	NIL
		Foliation 70-80 to CA, averaging 70-75 to CA.	54.57	55.04	0.47	195.000	51.000	4600.000	82.000	3450.000	NIL	NIL	NIL	NIL
		.	55.04	56.10	1.06	335.000	40.000	1750.000	38.000	540.000	NIL	NIL	NIL	NIL
		37.50 to 37.8: concordant? qtz vein. Top 15cm broken and partly ground. Contains calcite open space fillings, and 1-2% masses of black amph. +/- tourm.	56.10	56.85	0.75	50.000	28.000	260.000	5.000	46.000	NIL	NIL	NIL	NIL
		ALTERATION: tr. 1% Py.	56.85	58.13	1.28	20.000	21.000	261.000	2.500	24.000	NIL	NIL	NIL	NIL
		.	58.13	59.03	0.90	20.000	18.000	168.000	2.000	15.000	NIL	NIL	NIL	NIL
		STRUCTURE: Foliation below 43.80, generally	59.03	60.04	1.01	25.000	25.000	241.000	1.700	18.000	NIL	NIL	NIL	NIL
			76.55	77.55	1.00	35.000	33.000	228.000	2.000	18.000	NIL	NIL	NIL	NIL
			77.55	78.01	0.46	20.000	22.000	1250.000	1.600	12.000	NIL	NIL	NIL	NIL
			78.01	78.42	0.41	NIL	112.000	104.000	0.700	6.000	NIL	NIL	NIL	NIL
			78.42	78.89	0.47	60.000	160.000	378.000	3.500	40.000	NIL	NIL	NIL	NIL
			78.89	79.67	0.78	80.000	32.000	350.000	5.500	3.000	NIL	NIL	NIL	NIL
			84.43	85.59	1.16	70.000	20.000	198.000	0.600	4.000	NIL	NIL	NIL	NIL
			85.59	86.51	0.92	145.000	8.000	126.000	0.300	2.000	NIL	NIL	NIL	NIL
			86.51	87.58	1.07	270.000	12.000	44.000	0.200	NIL	NIL	NIL	NIL	NIL
			92.65	93.09	0.44	550.000	590.000	1030.000	4.200	72.000	NIL	NIL	NIL	NIL
			99.57	100.45	0.88	240.000	62.000	106.000	1.000	11.000	NIL	NIL	NIL	NIL

Nuinsco Resources Limited

DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9612

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		65 to CA.	100.45	101.70	1.25	315.000	23.000	70.000	0.300	23.000	NIL	NIL	NIL	NIL
		.	101.70	101.95	0.25	3380.000	970.000	5300.000	18.200	600.000	NIL	NIL	NIL	NIL
		39.05: 25cm wide subconcordant to crosscutting vein.	101.95	102.72	0.77	580.000	240.000	500.000	5.000	82.000	NIL	NIL	NIL	NIL
		.	102.72	103.59	0.87	575.000	122.000	300.000	6.000	53.000	NIL	NIL	NIL	NIL
		ALTERATION: 1% Py, tr. Cp Gn.	103.59	104.00	0.41	590.000	60.000	1800.000	6.400	160.000	NIL	NIL	NIL	NIL
		.	104.00	105.14	1.14	75.000	10.000	69.000	0.400	11.000	NIL	NIL	NIL	NIL
		STRUCTURE: Top contact approx. 45 to CA.	105.14	105.77	0.63	30.000	22.000	165.000	0.800	8.000	NIL	NIL	NIL	NIL
		Lower contact averages 20 to CA.	105.77	106.67	0.90	70.000	28.000	178.000	1.200	8.000	NIL	NIL	NIL	NIL
		.	106.67	107.35	0.68	70.000	32.000	235.000	1.200	10.000	NIL	NIL	NIL	NIL
		42.5: Very vuggy, 5-7cm wide concordant qtz calcite vein.	107.35	107.62	0.27	45.000	18.000	37.000	0.800	120.000	NIL	NIL	NIL	NIL
		.	107.62	108.81	1.19	50.000	22.000	65.000	0.300	75.000	NIL	NIL	NIL	NIL
		ALTERATION: 1% Py ? most on walls of vugs.	108.81	109.61	0.80	50.000	32.000	140.000	0.200	47.000	NIL	NIL	NIL	NIL
		.	109.61	110.53	0.92	70.000	90.000	190.000	0.700	53.000	NIL	NIL	NIL	NIL
		.	110.53	111.63	1.10	110.000	82.000	370.000	5.700	206.000	NIL	NIL	NIL	NIL
		44.6-45.0: Weakly-mod. bleached with discontinuous Py band to 1.5cm wide with minor qtz-calcite at 44.85.	111.63	111.86	0.23	165.000	42.000	720.000	3.500	325.000	NIL	NIL	NIL	NIL
		.	111.86	113.30	1.44	135.000	72.000	216.000	3.800	55.000	NIL	NIL	NIL	NIL
		STRUCTURE: vein and sulphides subconcordant.	113.30	114.09	0.79	60.000	72.000	680.000	3.800	103.000	NIL	NIL	NIL	NIL
		.	114.09	114.90	0.81	135.000	144.000	6300.000	9.000	310.000	NIL	NIL	NIL	NIL
		Below 48m: 1-3% calcite crystals on average. No weathered/ vuggy sections.	114.90	115.38	0.48	65.000	72.000	2400.000	4.700	225.000	NIL	NIL	NIL	NIL
		.	115.38	115.98	0.60	165.000	430.000	4800.000	25.000	1000.000	NIL	NIL	NIL	NIL
		ALTERATION: At 54.60, 55.0, small 1x 2-3cm patches of remobilized qtz-calcite Py with minor Galena.	115.98	116.42	0.44	1570.000	8600.000	21600.000	566.000	9650.000	NIL	NIL	NIL	NIL
		.	116.42	116.96	0.54	170.000	155.000	2300.000	6.700	190.000	NIL	NIL	NIL	NIL
		STRUCTURE: Foliation 70-75 to CA at 50.5m.	116.96	117.34	0.38	170.000	180.000	1350.000	2.600	262.000	NIL	NIL	NIL	NIL
		.	117.34	117.59	0.25	930.000	670.000	4100.000	11.000	830.000	NIL	NIL	NIL	NIL
		.	117.59	118.00	0.41	210.000	80.000	620.000	1.400	182.000	NIL	NIL	NIL	NIL
		.	118.00	118.49	0.49	400.000	970.000	6350.000	6.400	870.000	NIL	NIL	NIL	NIL
		.	118.49	119.32	0.83	180.000	270.000	1900.000	1.500	62.000	NIL	NIL	NIL	NIL
		.	119.32	120.03	0.71	215.000	92.000	1400.000	1.400	32.000	NIL	NIL	NIL	NIL

Nuinsco Resources Limited

DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
.			120.03	120.53	0.50	180.000	46.000	305.000	0.500	20.000	NIL	NIL	NIL	NIL
52.25:		Two < 2cm wide subconcordant qtz stringers with tr Py, < 1% black amph. +/- tourm.	120.53	120.81	0.28	480.000	290.000	1400.000	11.600	36.000	NIL	NIL	NIL	NIL
.			120.81	121.11	0.30	215.000	210.000	1350.000	7.600	38.000	NIL	NIL	NIL	NIL
.			121.11	121.88	0.77	30.000	34.000	305.000	1.000	62.000	NIL	NIL	NIL	NIL
STRUCTURE:		65 to CA at 52-53m, 70 to CA at 57m.	121.88	122.95	1.07	15.000	19.000	130.000	0.800	78.000	NIL	NIL	NIL	NIL
.			122.95	124.05	1.10	25.000	26.000	208.000	1.400	110.000	NIL	NIL	NIL	NIL
.			124.05	124.41	0.36	110.000	22.000	125.000	0.600	31.000	NIL	NIL	NIL	NIL
Below 55.5m:		Moderately banded due to weak bleaching and Chl-Ser. along foliation parallel slips.	124.41	125.69	1.28	165.000	94.000	520.000	1.500	8.000	NIL	NIL	NIL	NIL
.			126.58	127.40	0.82	150.000	122.000	450.000	0.500	9.000	NIL	NIL	NIL	NIL
.			129.91	130.37	0.46	200.000	39.000	142.000	0.500	10.000	NIL	NIL	NIL	NIL
.			132.82	133.36	0.54	130.000	72.000	660.000	1.200	9.000	NIL	NIL	NIL	NIL
ALTERATION:		2-3% fine disseminated Py.	133.36	134.09	0.73	220.000	84.000	1580.000	0.900	8.000	NIL	NIL	NIL	NIL
.			137.00	137.75	0.75	890.000	54.000	435.000	0.800	7.000	NIL	NIL	NIL	NIL
STRUCTURE:		Foliation 70-80 to CA from 60-63.5m.	139.97	140.38	0.41	1680.000	58.000	1580.000	1.200	7.000	NIL	NIL	NIL	NIL
.			140.38	140.99	0.61	130.000	58.000	430.000	0.300	7.000	NIL	NIL	NIL	NIL
.			140.99	141.95	0.96	310.000	166.000	630.000	0.400	7.000	NIL	NIL	NIL	NIL
63.0 to 65.0:		Spotted with up to 20% <1-2mm calcite crystals disseminated throughout. Also over 10-15cm at 72.95, over 50cm at 74.0 and over 50cm at 75.50.	143.62	143.97	0.35	160.000	52.000	280.000	0.300	6.000	NIL	NIL	NIL	NIL
.			143.97	144.34	0.37	2420.000	660.000	670.000	5.900	7.000	NIL	NIL	NIL	NIL
.			144.34	145.38	1.04	130.000	126.000	640.000	0.400	7.000	NIL	NIL	NIL	NIL
.			146.31	146.97	0.66	85.000	88.000	860.000	0.700	12.000	NIL	NIL	NIL	NIL
.			146.97	148.43	1.46	45.000	92.000	250.000	0.400	8.000	NIL	NIL	NIL	NIL
STRUCTURE:		Foliation 80 to CA at 65m, 70-75 to CA at 74m, and 70 to CA at 80m.	148.43	149.75	1.32	30.000	64.000	180.000	0.400	6.000	NIL	NIL	NIL	NIL
.			149.75	150.85	1.10	30.000	84.000	230.000	1.300	8.000	NIL	NIL	NIL	NIL
.			150.85	151.48	0.63	35.000	118.000	680.000	2.000	10.000	NIL	NIL	NIL	NIL
67 to 75:		2-3% sm.-med. sized qtz eyes.	154.53	155.33	0.80	15.000	64.000	110.000	0.700	8.000	NIL	NIL	NIL	NIL
.			155.33	156.05	0.72	15.000	44.000	100.000	0.600	8.000	NIL	NIL	NIL	NIL
78.0 to 78.35:		Crosscutting qtz vein with, 1-3% Chl. Strongly sericitized wallrock	156.05	156.90	0.85	30.000	124.000	620.000	1.400	11.000	NIL	NIL	NIL	NIL
.			156.90	157.58	0.68	25.000	235.000	255.000	2.200	8.000	NIL	NIL	NIL	NIL

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		with elevated Py for 10-15cm from both contacts.	157.58	157.75	0.17	55.000	220.000	830.000	2.900	19.000	NIL	NIL	NIL	NIL
		.	157.75	158.67	0.92	50.000	122.000	325.000	2.200	21.000	NIL	NIL	NIL	NIL
		ALTERATION: Vein 1-2% fine-med. Py, 1-2%	166.50	166.79	0.29	30.000	52.000	540.000	0.500	11.000	NIL	NIL	NIL	NIL
		Asp, < 1% Cp, mostly associated	167.24	167.59	0.35	20.000	100.000	418.000	0.400	12.000	NIL	NIL	NIL	NIL
		with late fractures.	169.08	170.50	1.42	10.000	54.000	46.000	NIL	8.000	NIL	NIL	NIL	NIL
		.	170.50	172.02	1.52	25.000	26.000	136.000	0.300	5.000	NIL	NIL	NIL	NIL
		STRUCTURE: Contacts near perpendicular to	172.02	172.95	0.93	20.000	19.000	650.000	NIL	6.000	NIL	NIL	NIL	NIL
		foliation, averaging 30 to CA. Foliation 75 to CA,	172.95	173.29	0.34	20.000	30.000	435.000	0.300	9.000	NIL	NIL	NIL	NIL
		.	173.29	174.35	1.06	30.000	38.000	210.000	0.300	8.000	NIL	NIL	NIL	NIL
		COMMENTS: Sulphides intergrown, Asp enveloping	175.38	176.39	1.01	15.000	32.000	100.000	NIL	5.000	NIL	NIL	NIL	NIL
		Py, Cp in places. Possibly 1 sulphide replacing another.	176.39	177.91	1.52	20.000	44.000	170.000	0.200	5.000	NIL	NIL	NIL	NIL
		.	177.91	179.22	1.31	20.000	46.000	508.000	0.200	4.000	NIL	NIL	NIL	NIL
		79.35: Crosscutting to subconcordant, qtz stringer <1cm wide.	179.22	180.78	1.56	75.000	18.000	272.000	NIL	4.000	NIL	NIL	NIL	NIL
		.	180.78	182.15	1.37	15.000	6.000	285.000	NIL	1.000	NIL	NIL	NIL	NIL
		ALTERATION: Minor Py.	182.15	183.40	1.25	30.000	20.000	285.000	0.300	4.000	NIL	NIL	NIL	NIL
		.	183.40	184.85	1.45	20.000	31.000	245.000	0.500	2.000	NIL	NIL	NIL	NIL
		80.2 to 81.35: Qtz eyes rare. 3-5% sm.-med. size fsp.	184.85	186.28	1.43	25.000	13.000	96.000	0.200	2.000	NIL	NIL	NIL	NIL
		phenocrysts. Pretetonic dyke or possibly a flow.	186.28	187.80	1.52	40.000	69.000	300.000	0.600	4.000	NIL	NIL	NIL	NIL
		.	187.80	188.85	1.05	130.000	94.000	410.000	1.500	4.000	NIL	NIL	NIL	NIL
		ALTERATION: 2-3% fine disseminated Py.	188.85	189.30	0.45	310.000	170.000	310.000	3.700	5.000	NIL	NIL	NIL	NIL
		.	189.30	190.70	1.40	200.000	168.000	480.000	2.800	7.000	NIL	NIL	NIL	NIL
		STRUCTURE: Foliation 70 to CA.	190.70	192.10	1.40	90.000	138.000	345.000	2.100	4.000	NIL	NIL	NIL	NIL
		.	192.10	193.50	1.40	55.000	57.000	238.000	0.500	2.000	NIL	NIL	NIL	NIL
		COMMENTS: Slip/individual shear planes defined	198.08	198.85	0.77	85.000	48.000	890.000	0.700	9.000	NIL	NIL	NIL	NIL
		by micaceous laminae.	198.85	200.25	1.40	70.000	85.000	3400.000	0.800	4.000	NIL	NIL	NIL	NIL
		.	200.25	201.30	1.05	140.000	73.000	2850.000	0.700	6.000	NIL	NIL	NIL	NIL
		88.4 to 92.85: Small qtz eyes 1-2%, small fsp. grains	203.14	204.19	1.05	140.000	67.000	1960.000	0.500	5.000	NIL	NIL	NIL	NIL
		10-15% weakly banded mod. foliated. Bleached/	205.29	205.85	0.56	40.000	80.000	2800.000	0.500	1.000	NIL	NIL	NIL	NIL

Nuinsco Resources Limited

DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		altered to same degree as surrounding rock.	205.85	206.34	0.49	425.000	293.000	10000.000	3.900	3.000	NIL	NIL	NIL	NIL
		.	206.34	206.74	0.40	80.000	73.000	2400.000	0.900	3.000	NIL	NIL	NIL	NIL
		ALTERATION: 1-2% fine disseminated Py.	206.74	207.55	0.81	305.000	62.000	1350.000	0.800	1.000	NIL	NIL	NIL	NIL
		.	207.55	208.23	0.68	585.000	31.000	240.000	0.700	1.000	NIL	NIL	NIL	NIL
		STRUCTURE: Foliation 70-75 to CA.	208.23	208.93	0.70	360.000	71.000	1200.000	1.100	1.000	NIL	NIL	NIL	NIL
		.	208.93	209.67	0.74	160.000	41.000	1650.000	0.900	1.000	NIL	NIL	NIL	NIL
		COMMENTS: Probably a syn-to late tectonic	209.67	210.37	0.70	225.000	42.000	1950.000	0.700	NIL	NIL	NIL	NIL	NIL
		dyke, or a competent X-tal tuff which resisted	210.37	211.18	0.81	300.000	67.000	2730.000	0.800	NIL	NIL	NIL	NIL	NIL
		differential shearing. Unbanded.	212.66	214.06	1.40	1630.000	81.000	1530.000	0.900	NIL	NIL	NIL	NIL	NIL
		.	214.06	214.40	0.34	350.000	43.000	185.000	0.600	3.000	NIL	NIL	NIL	NIL
		92.9: Crosscutting qtz veinlet.	214.40	214.95	0.55	465.000	8.000	93.000	0.500	NIL	NIL	NIL	NIL	NIL
		.	214.95	215.66	0.71	195.000	30.000	89.000	0.700	NIL	NIL	NIL	NIL	NIL
		ALTERATION: Minor Py tr. Cp.	215.66	216.57	0.91	240.000	50.000	560.000	0.600	NIL	NIL	NIL	NIL	NIL
		.	216.57	217.45	0.88	200.000	100.000	363.000	0.200	NIL	NIL	NIL	NIL	NIL
		STRUCTURE: Foliation 78 to CA at 92.	217.45	218.00	0.55	190.000	55.000	580.000	0.200	NIL	NIL	NIL	NIL	NIL
		.	218.00	218.44	0.44	235.000	27.000	103.000	1.000	NIL	NIL	NIL	NIL	NIL
		93.4 to 101.75: Medium grained, strongly banded	220.69	221.01	0.32	185.000	85.000	239.000	2.600	2.000	NIL	NIL	NIL	NIL
		below 98m. Foliation weakly kinked in places.	221.01	221.65	0.64	75.000	36.000	93.000	0.400	NIL	NIL	NIL	NIL	NIL
		.	221.65	222.62	0.97	160.000	153.000	810.000	0.900	NIL	NIL	NIL	NIL	NIL
		ALTERATION: 3-4% disseminated Py. Rare narrow,	222.62	223.55	0.93	45.000	35.000	65.000	0.300	NIL	NIL	NIL	NIL	NIL
		foliation parallel seams.	227.78	228.40	0.62	275.000	226.000	140.000	1.600	NIL	NIL	NIL	NIL	NIL
		.	228.40	228.89	0.49	40.000	23.000	135.000	0.300	NIL	NIL	NIL	NIL	NIL
		STRUCTURE: No distinct top contact. Lower contact,	228.89	230.28	1.39	25.000	33.000	258.000	NIL	NIL	NIL	NIL	NIL	NIL
		coincident with 5cm qtz-calcite vein at 65-70 to CA.	230.28	230.60	0.32	345.000	312.000	114.000	0.200	NIL	NIL	NIL	NIL	NIL
		.	230.60	231.78	1.18	40.000	112.000	800.000	0.400	NIL	NIL	NIL	NIL	NIL
		101.80 to 102.45: Reasonably fine grained, unbanded.	231.78	232.26	0.48	85.000	48.000	800.000	0.300	1.000	NIL	NIL	NIL	NIL
		Moderately well lineated raking 80-90 to CA in foliation	232.26	232.75	0.49	90.000	115.000	760.000	0.900	1.000	NIL	NIL	NIL	NIL
		plane.	232.75	234.10	1.35	60.000	18.000	258.000	NIL	NIL	NIL	NIL	NIL	NIL

Nuinsco Resources Limited

DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9612

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
.			234.10	235.58	1.48	30.000	20.000	78.000	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: 3-4% Py disseminated to banded. Weakly sericitized.	235.58	236.62	1.04	20.000	63.000	50.000	NIL	NIL	NIL	NIL	NIL	NIL
			236.62	237.38	0.76	60.000	127.000	245.000	0.500	NIL	NIL	NIL	NIL	NIL
.			237.38	237.75	0.37	50.000	320.000	53.000	NIL	NIL	NIL	NIL	NIL	NIL
		103.8: Subconcordant qtz-calcite veining over 20-25cm.	237.75	238.03	0.28	15.000	41.000	89.000	NIL	NIL	NIL	NIL	NIL	NIL
			238.03	238.43	0.40	65.000	96.000	422.000	0.300	NIL	NIL	NIL	NIL	NIL
		ALTERATION: 1-2% Py, tr. galena.	239.55	239.98	0.43	25.000	24.000	165.000	NIL	NIL	NIL	NIL	NIL	NIL
.			241.00	242.46	1.46	20.000	75.000	48.000	NIL	NIL	NIL	NIL	NIL	NIL
		STRUCTURE: Foliation 70 to CA, at 102.75.	242.46	243.48	1.02	20.000	66.000	39.000	NIL	NIL	NIL	NIL	NIL	NIL
.			243.48	244.13	0.65	20.000	43.000	33.000	NIL	NIL	NIL	NIL	NIL	NIL
		102.45 to 107.4: Medium to coarse grained, strongly banded, moderately bleached with tr.-1%, small qtz eyes	244.13	245.52	1.39	15.000	81.000	52.000	NIL	NIL	NIL	NIL	NIL	NIL
		coarse crystal tuff.	245.52	245.97	0.45	20.000	52.000	52.000	NIL	NIL	NIL	NIL	NIL	NIL
.			245.97	247.30	1.33	25.000	59.000	49.000	NIL	NIL	NIL	NIL	NIL	NIL
			247.30	248.86	1.56	20.000	100.000	46.000	0.300	NIL	NIL	NIL	NIL	NIL
		ALTERATION: 3-5% fine-med. grained disseminated Py.	248.86	250.46	1.60	30.000	133.000	52.000	0.400	NIL	NIL	NIL	NIL	NIL
.			252.97	253.89	0.92	15.000	20.000	60.000	NIL	NIL	NIL	NIL	NIL	NIL
		STRUCTURE: 75 to CA at 106m, 65 to 70 to CA	253.89	255.21	1.32	15.000	19.000	59.000	NIL	NIL	NIL	NIL	NIL	NIL
		at 107.3m.	260.74	261.57	0.83	35.000	28.000	74.000	0.200	NIL	NIL	NIL	NIL	NIL
.			261.57	261.98	0.41	50.000	18.000	92.000	0.200	1.000	NIL	NIL	NIL	NIL
		COMMENTS: Lineation 40-50 degree rake in plane	261.98	262.49	0.51	30.000	17.000	68.000	NIL	1.000	NIL	NIL	NIL	NIL
		of foliation.	262.49	263.49	1.00	30.000	13.000	69.000	NIL	NIL	NIL	NIL	NIL	NIL
.			263.49	264.26	0.77	45.000	14.000	246.000	NIL	NIL	NIL	NIL	NIL	NIL
		107.5+: 12-15cm wide subconcordant qtz vein with coarse calcite veins at 109.2-2cm wide, 110.45, 111.80-2-3cm wide.												
		115.1-tr-1% albite?, tr. garnet in minute tension gashes over 10cm, with tr Py, Gnt.												
.														
		ALTERATION: 4-5% fine disseminated Py, some												

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		banded, on average. Up to 5-7% over 3-5m. Trace garnet. Minor Py, < 1% galena in veins at 109.2, and 110.45.												
		STRUCTURE: Contacts broken, appear sub parallel to CA. Foliation 75 to CA at 110.5, weakly kinked. 65-80 to CA at 115 and 75-80 to CA at 115.5.												
		115.4 to 116.5: tr.-1% orange garnet present, mod-strongly sericitized, strongly lineated at 70-75% rake in plane of foliation.												
		ALTERATION: 3-4% disseminated to banded Py, tr. galena in crosscutting. 2-5mm of qtz stringers, 30 to CA. 1-2% specular hematite? in bands with Py, fine chlorite. Trace fine garnet present above about 118m.												
		STRUCTURE: Foliation 65 to CA at 116. Foliation 85 to CA at 121.25, 70 to CA at 121.6, 80 to CA at 130.75.												
		COMMENTS: Most garnet pale pink. Mod-strongly banded, bleached sericitized below about 100m.												
		117.45 to 118.25: 4cm wide concordant blue grey qtz stringers.												
		STRUCTURE: Strongly kinked in places between 116-128m.												
		120.6 to 121.15: Intensely kinked with a few <5mm Py seams												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS														
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb			
		and several, cm wide, subconcordant clay mineral zones, apparently indicating minor faults.															
		ALTERATION: Minor Py, Cp, tr Gn. Garnets present over 5-10cm in wallrock.															
		COMMENTS: 1-2% fine qtz-eyes, 3-5% fine-med. grained Py throughout 100-136. No significant calcite alteration															
		136 to 160: Similar to uphole dacites in everything but qtz-eye abundance. 2-3% sm.-med. size qtz eyes.															
		ALTERATION: 3-5% fine-med. grained Py disseminated to weakly banded, locally to 5-7% over 20-50cm.															
		STRUCTURE: Foliation 70 to CA at 143, 75 to CA at 147. Averages 70 to CA from 148-157.															
		160 to 171: Relatively fine grained, weakly banded. Moderately-strongly sericitized, bleached. 1-2% generally small qtz eyes. Little if any kinking of foliation.															
		ALTERATION: 3-4% fine-med. Py, banding rare.															
		STRUCTURE: Foliation 85 to CA at 157.5, 70 to CA at 159.75. Averages 70-75 to CA from 160-169m.															

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		COMMENTS: Rare streaks of lime to bright "fucshite" green over 2m at 155, likely lithic fragments. Lineation raking 45-50 degrees in foliation plane.												
		171 to 187.75: Strongly banded due to spaced sericite rich shear planes, parallel to foliation. Strongly fractured parallel to foliation from 176.25-186. 172.95-173.3 at least, 75-80% qtz-calcite veins. Three narrow zones of fault gorge between 182 and 185m, 2-15cm wide.												
		ALTERATION: 3-5% fine disseminated Py. 1% Py tr Gn from 172.95-173.3.												
		STRUCTURE: Foliation 70-75 to CA from 170-175m. Foliation 80 to CA from 180-194m.												
		187.75 to 197.35: Medium grained, weakly banded. 3-5% sm.-med. size qtz-eyes. Subconcordant 2-5cm wide qtz veinlets with weakly bleached wallrock contacts at 198.15, 198.70.												
		ALTERATION: 3-5% fine-med. grained disseminated Py. tr Sp at 128.25. Minor pink calcite at 128.75.												
		STRUCTURE: Contact sheared at 30 to CA with Chl-calcite over 3-5cm. Foliation 70 to CA at 194.5.												
		128.35 to 228.5: Pale grey, unbanded qtz-eye dacite tuff 3-5% sm.-med. size qtz-eyes, 7-8% locally to												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS										
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		10% over 1/2m below 208.5. Frequently weakly bleached over <1 to 5cm zones parallel to foliation. Subconcordant qtz-calcite veinlets 1-5cm wide at 203.9, 206.3, 206.55.											
		ALTERATION: 3-4% fine-med. grained disseminated Py. Below about 209m-tr Cp Sp Gn?, with narrow Py seams at 209m. 5-7% Py present, some as large aggregates occurring with dark grey wisps of remobilized qtz, and in pressure shadows of lg. qtz- eyes.											
		214.2: 2-3cm wide qtz vein, nearly perpendicular to foliation. Subconcordant-concordant qtz-calcite veinlets at 226.2, 226.7, 227.75.											
		ALTERATION: Abundant fine tourmaline in qtz, along both contacts, 1% Py, trace Cp.											
		STRUCTURE: Vein at 25-30 to CA. Foliation 60 to CA at 213-213.5. 80 to CA at 218.											
		228.5 to 253.2: Abrupt transition to weakly-mod. banded qtz-eye dacite. 3-5% qtz-eyes generally small.											
		ALTERATION: 3-5% fine disseminated Py.											
		STRUCTURE: Foliation 70-75 to CA from 220-249.5m. Foliation 85 to CA at 250-257.											

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		Below 238.20: Strongly banded.												
		ALTERATION: 4-5% fine Py disseminated to banded, < 1mm wide.												
		STRUCTURE: Foliation 70-75 to CA above 261m. Foliation 80-85 to CA from 261.25-262. 263-265m foliation variable 60-80 to CA.												
		253.20 to 264.96: Strongly banded, as above, but with 7-8% med.-lg. size qtz-eyes. Locally to 10% over 5m. Including 261-261.5, fine grained, 2-3% sm. qtz eyes.												
		261.8 to 264.3: similar to 261-261.5.												
264.96	267.45	FELSIC INTRUSIVE DYKE (Felsic Intrus. Dyke) - Fine-med. grained, med. red brown, tan at contacts. Consists 80-85% potassic feldspar. 5% fine mafic silicates Hb+/-Chl. 10-15% grey-white-sodic?-fsp phenocrysts, most, < 1mm.	264.26	265.13	0.87	30.000	10.000	100.000	NIL	1.000	NIL	NIL	NIL	NIL
		ALTERATION: tr-1% Py concentrated within bleached zones at contacts.												
		STRUCTURE: Top contact 65 to CA. Very weakly foliated concordant with dacites. Lower contact 80 to CA.												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
267.45	276.45	FINE-MED. GRAINED QID (QID, fg-mg) - Similar to interval from 228.5-253.2. Weakly-mod. banded, 1-3% sm. to rare lg. qtz. eyes. Moderately sericitized, less than or equal to 1%, generally concordant qtz-calcite +/- Py, tr Cp veins 1-3cm wide. 275.30-276.45, transition to dacite with 8-10% sm.-lg. qtz-eyes.	267.31	268.12	0.81	35.000	8.000	110.000	0.300	1.000	NIL	NIL	NIL	NIL
			268.12	269.18	1.06	50.000	8.000	130.000	0.300	1.000	NIL	NIL	NIL	NIL
			271.17	272.13	0.96	35.000	9.000	114.000	NIL	3.000	NIL	NIL	NIL	NIL
			274.03	274.85	0.82	115.000	29.000	125.000	0.700	2.000	NIL	NIL	NIL	NIL

ALTERATION: 3-5% disseminated to occasionally banded Py bands 1-5mm wide. Trace tourmaline in qtz-calcite veinlet at 268, tr Py.

STRUCTURE: Foliation generally 75-85 to CA, occasionally to 65 or 90 to CA. Foliation at end of hole 80 to CA.

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
39.63	-50.00	
154.57	-52.00	
214.07	-46.00	9.00
274.39	-45.50	12.00
276.45	-45.50	

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Collar Eastings: -600.00

Collar Northings: -775.00

Collar Elevation: 5.00

Grid: Rich

Collar Inclination: -75.00

Grid Bearing: 360.00

Final Depth: 474.20 metres

DDH drilled on claim Lot5, ConI, Richardson Twp. Drill contractor, Bradley Bros. Di

Logged by: C.A. Wagg

Date: 03/03/96-10/03/96

Down-hole Survey: Sperry Sun

			ASSAYS											
FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
0	18.85	OVERBURDEN (OB) -Casing, lowermost .75-.9m banded dacite bedrock. Acid test at 18.9m-75 degrees. . ALTERATION: 5-7% disseminated Py. . STRUCTURE: Foliation 50 to CA. . COMMENTS: H diameter core.	15.10	15.64	0.54	130.000	54.000	92.000	0.300	3.000	NIL	NIL	NIL	NIL
18.85	44.8	FINE-MED. GRAINED QID (QID, fg-mg) - pale green to grey green, well foliated with 2-3% sm.-med. size 1-4mm qtz eyes. Weakly-mod. banded due to calcite and k-spar alt along foliation parallel slips/fractures. 24.6, strong pervasive k-spar alt over 25-30cm with fracture filling qtz-calcite-Chl. 26.6-28.0, med. grained unbande interval with, less than or equal to, 1% small qtz eyes-gradational contacts. 30.0-38m, well banded due to, less than or equal to, 1mm wide, closely spaced fractures with calcite, k-spar alteration . ALTERATION: 1-2% fine disseminated Py. Weak-mod. k-spar alt along foliation parallel fractures above	24.54	24.92	0.38	NIL	31.000	27.000	NIL	2.000	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		22.5m and below 23m. 2-3% fine-coarse disseminated Py. k-spar alt along fractures cases at 26.6m. Weak bleaching and weak pervasive k-spar alteration from 29.0-29.7.												
		STRUCTURE: Foliation variable from 50-60 to CA, averaging 55 degrees above 22m. Foliation 45 to CA at 22.75m. Foliation 45-50 to CA at 26m. 50 to CA at 30m, 45 to CA at 32m, 45 to CA at 37m, 45-50 above 42m, and foliation 50-55 from 42-22m.												
44.8	47.35	INTERMEDIATE QID (QID, Int.) - contaminated. Fine-med. grained, dark grey streaked and with 5-10cm long bleached zones, occasional qtz-calcite stringers parallel to foliation. 10-20% fine mafic silicates.	44.80	46.22	1.42	20.000	134.000	148.000	NIL	2.000	NIL	NIL	NIL	NIL
		ALTERATION: 5-7% fine-med. grained disseminated Py.	46.22	46.90	0.68	95.000	91.000	103.000	NIL	4.000	NIL	NIL	NIL	NIL
		STRUCTURE: Top contact concordant, fairly sharp. Lower contact weakly sheared, bleached, coincident with foliation parallel qtz stringers over 10cm.												
47.35	52.15	MED.-COARSE QID (QID mg-cg) - pale-	46.90	47.45	0.55	40.000	70.000	149.000	NIL	3.000	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		med. grey, well foliated with 3-5% sm.-lg. qtz eyes.	47.45	48.02	0.57	20.000	44.000	1160.000	NIL	2.000	NIL	NIL	NIL	NIL
		Weakly bleached and banded due to barren-late?	51.33	51.70	0.37	30.000	97.000	3400.000	NIL	NIL	NIL	NIL	NIL	NIL
		Crosscutting 1cm wide qtz stringers at 48.1 and 52.48m both at about 30 to CA.	51.70	52.10	0.40	20.000	48.000	615.000	0.300	2.000	NIL	42.000	NIL	NIL
		ALTERATION: 1-3% fine disseminated Py. 52.30-52.7, tr-1% Sph as streaks along foliation planes and in concordant <1cm wide qtz-calcite-chlorite stringers.												
		STRUCTURE: Lower contact coincident with 3-4cm wide subconcordant qtz-calcite vein at 65 to CA.												
52.15	59.3	QTZ-FSP PORPHYRY (QTZ-Fsp Porph.) - intrusive?	52.10	52.39	0.29	25.000	61.000	3180.000	NIL	NIL	NIL	NIL	NIL	NIL
		Coarse grained. Dark grey-black spotted with 3-5% qtz eyes and 1-5% grey-white fsp phenocrysts-to 10% locally-Probably intrusive. 52.55-53.6, mod.-strongly bleached as is 20cm at 57.9-inclusion?	55.38	55.72	0.34	30.000	56.000	2650.000	0.400	3.000	NIL	NIL	NIL	NIL
		ALTERATION: 3-4% fine-med. disseminated Py, often euhedral. Minor Sp along foliation parallel fracture at 52.2 and 2-3% over 10cm at 55.6 and one fracture at 59.85.												
59.3	62.0	MED.-CRS. QID (QID, mg-cg) - similar to interval from 47.35-52.15. Strongly bleached from 57.95-58.95.	59.32	59.63	0.31	20.000	11.000	164.000	NIL	1.000	NIL	NIL	NIL	NIL
			59.63	59.99	0.36	15.000	30.000	3000.000	NIL	1.000	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		ALTERATION: 1-2% Py, minor Sph along qtz calcite stringer. Foliation parallel at 59.85.												
62.0	77.4	QTZ-FSP PORPHYRY INTRUSIVE (QTZ-Fsp Porph. Intrus.) - similar to interval from 52.15-59.3. 2-3% sm.-lg. qtz eyes. 1-3% sm. fsp phenocrysts, locally to 5-7% over 30-50cm. 72.30-73.30, weakly bleached/banded parallel to foliation, 2-3% Crosscutting qtz stringers plus concordant calcite-qtz stringers. 72.25-72.65, 5% calcite+/- qtz-Chl-Py stringers, concordant. 76.75-78.25, 15% calcite-qtz Chl-Py subconcordant to Crosscutting stringers.	61.79	62.26	0.47	25.000	30.000	108.000	NIL	1.000	NIL	NIL	NIL	NIL
		ALTERATION: 3-5% fine disseminated Py.	66.94	68.14	1.20	10.000	30.000	126.000	NIL	2.000	NIL	NIL	NIL	NIL
		STRUCTURE: Top contact foliation parallel coincident with qtz-calcite-Chl stringers at approx. 40 degrees. Foliation 50 to CA at 69.5m, 40-45 to CA at 72.5m, 50-55 to CA above 75m.												
77.4	83.3	MED.-CRS. QID (QID mg-cg) - similar to interval from 59.3-62.0m. Moderately bleached/banded. 2-3% qtz eyes, locally to 7-10% over 15-20cm.	78.60	79.45	0.85	55.000	16.000	110.000	NIL	2.000	NIL	NIL	NIL	NIL
		ALTERATION: 1-3% fine disseminated Py, 3-4% over lowermost 1-1.5m. Frequent narrow calcite	79.45	79.87	0.42	75.000	7.000	445.000	NIL	1.000	NIL	NIL	NIL	NIL
			79.87	80.09	0.22	35.000	18.000	0.015	0.300	1.000	NIL	NIL	NIL	NIL
			80.09	80.95	0.86	30.000	11.000	205.000	NIL	1.000	NIL	NIL	NIL	NIL
			80.95	81.25	0.30	30.000	14.000	1280.000	NIL	3.000	NIL	NIL	NIL	NIL
			81.35	82.35	1.00	30.000	6.000	136.000	NIL	2.000	NIL	210.000	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		filled fractures, with chloritization over a few mm into wallrock, tr Sph at 79.6. 2-3mm wide Sph seam along concordant calcite-Chl veinlet at 80m with, tr disseminated over 5cm in wallrock. 1% disseminated Sph over 10cm at 81.1.	82.35	83.10	0.75	45.000	18.000	202.000	NIL	3.000	NIL	100.000	NIL	NIL
		STRUCTURE: Lower contact chilled, weakly sheared, gradational over 10-15cm. Foliation 60 to CA just below contact, variable from 45-60 to CA. Foliation 45-50 to CA at lower contact.												
83.3	88.67	QTZ-FSP PORPHYRY INTRUSION (QTZ-Fsp Porph. Intrus.) - similar to interval from 62.0-77.4 but with less Py, more fsp-up to 5-10% over 30-50cm- and with 3-5% fine biotite present over 20-50cm at 85.7 and 87.0m.												
		ALTERATION: 2-3% fine-med. grained disseminated Py.												
		STRUCTURE: Foliation 45-55 to CA. Lower contact abrupt but unremarkable.												
		COMMENTS: Py, fsp decrease markedly, banded to pervasive bleaching appears.												
88.67	90.8	MED.-CRS. QID (QID mg-cg) - similar to interval	89.73	90.20	0.47	15.000	41.000	85.000	NIL	5.000	NIL	280.000	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		from 77.4-83.3. 88.67-89.20, weak-mod. pervasive bleaching. 89.20-90.8, banded, local bleaching adjacent to foliation parallel slips/shears and subconcordant fractures. 90.3, two subconcordant qtz-stringers with minor Py.	90.20	90.80	0.60	25.000	13.000	440.000	NIL	3.000	NIL	310.000	NIL	NIL
		ALTERATION: 1-3% fine disseminated Py.												
		STRUCTURE: Foliation 60 to CA at 90m. 50-55 to CA at lower contact.												
		COMMENTS: Py, fsp decrease markedly, banded due to pervasive bleaching appears.												
90.8	99.08	QTZ-FSP PORPHYRY (QTZ-Fsp Porph.) - possibly intermixed with minor extrusive material. Similar to previous intervals of this unit, e.g. 83.3-88.67 <1cm qtz stringers at 91.60, 91.75, 94.8, 94.9, 96.3. Subconcordant to Crosscutting, generally with minor Py, Chl, tr tourmaline.												
		ALTERATION: 3-5% fine-evenly disseminated Py.												
		STRUCTURE: Foliation 50-55 to CA throughout interval, 55-60 at lower contact.												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
99.08	105.15	MED.-CRS. QID (QID, mg-cg) - similar to previous intervals of this unit e.g. 88.67-90.8. Moderately well banded due to bleaching. 102.9, 10-12cm wide qtz vein, concordant, with, tr Py and a few % tourmaline. 103.48-103.8, qtz vein with minor Chl-calcite altered inclusions, tr-1% Py and felted masses of fine tourmaline, filling an irregular fracture just below to contact. 104.0-105.15, weak pervasive bleaching.	99.10	99.81	0.71	5.000	8.000	97.000	NIL	1.000	NIL	575.000	NIL	NIL
			99.81	100.05	0.24	10.000	46.000	0.015	NIL	1.000	NIL	580.000	NIL	NIL
			100.05	100.68	0.63	20.000	15.000	125.000	NIL	4.000	NIL	400.000	NIL	NIL
			102.82	103.00	0.18	5.000	5.000	120.000	NIL	2.000	NIL	540.000	NIL	NIL
			103.00	103.50	0.50	10.000	8.000	150.000	NIL	2.000	NIL	138.000	NIL	NIL
			103.50	103.92	0.42	5.000	5.000	93.000	NIL	2.000	NIL	144.000	NIL	NIL
		ALTERATION: 2-3% fine disseminated Py, 3-10cm, wide concordant seam of honey-brown Sph at 100.2.												
		STRUCTURE: Vein and foliation 50-55 to CA. Top contact foliation parallel, lower contact sub-concordant to Crosscutting, averages 20-30 to CA.												
105.15	149.9	QTZ-FSP PORPHYRY (QTZ-Fsp Porph.) - possibly intermixed with minor extrusive material. Similar to interval from 90.8-99.08, but with more foliation parallel fracturing, bleaching, and banding than in uphole intervals. Subinterval contacts somewhat sheared, gradational, and difficult to pinpoint.	112.50	113.30	0.80	315.000	30.000	855.000	1.400	1.000	NIL	42.000	NIL	NIL
			113.30	113.95	0.65	450.000	34.000	1450.000	2.400	NIL	NIL	14.000	NIL	NIL
			142.70	143.32	0.62	25.000	23.000	108.000	NIL	NIL	NIL	220.000	NIL	NIL
			146.50	147.80	1.30	10.000	17.000	130.000	NIL	4.000	NIL	270.000	NIL	NIL
			147.80	148.57	0.77	15.000	21.000	185.000	NIL	35.000	NIL	166.000	NIL	NIL
			148.57	149.22	0.65	20.000	145.000	NIL	NIL	NIL	NIL	122.000	NIL	NIL
		ALTERATION: 2-5% fine disseminated Py. Locally to 5-7% over 20-30cm. Below about 144m,												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		5-7% disseminated Py up to 7-10% over 30-50cm weak.												
		STRUCTURE: Foliation 50-55 to CA from 104-114m. Foliation 45 to CA at 115m, 55-60 at 118, 45 at 125, 50-60 to CA above 147, often weak. 45 to CA at 148.75, weak, irregular and contorted below that.												
		106.62: 18cm wide, unbanded fine grain interval without eyes/phenocrysts. Apparently a dacitic inclusion.												
		109.5 to 111.7: 5-15% pale grey, fine fsp phenocrysts.												
		112.6 to 113.9: Banded with bleached foliation parallel intervals to 3cm wide with tourm. filled Crosscutting fracture at 45 to CA at 113.0.												
		ALTERATION: 4-5% fine-med. grained disseminated Py.												
		STRUCTURE: Foliation 50 to CA.												
		113.9 to 116.15: Fine-med. grained weakly banded with, < 1mm wide bleached fractures. 1-2% sm. qtz eyes-likely a crystal tuff.												
		116.15 to 117.2: fsp phenocrysts present at 4-5%, qtz eyes rare or absent.												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		STRUCTURE: Foliation 55-60 to CA.												
		117.2 to 127.25: Fine-med. grained qtz-fsp porphyry 1-3% sm.-med. size qtz eyes. 117.4, Crosscutting calcite altered mafic dyke. Moderately sheared, appears gabbroic.												
		ALTERATION: 2-5% fine-med. grained disseminated Py.												
		STRUCTURE: 117.4 dyke at 30 to CA.												
		127.25 to 129.9: Weak bleaching, weak-mod. k-spar alteration immediately adjacent to fractures. Colour change from dark grey above 127.25 to olive-grey below, due to weak pervasive k-spar alteration +/- ep. sausserite.												
		ALTERATION: Weak bleaching, tr k-spar along foliation parallel to Crosscutting fractures, with epidote, and calcite common from 129.7-129.9.												
		STRUCTURE: Foliation 50-55 to CA. Poorly developed foliation-overpointed?-offset along numerous minor fractures. Veining fracture controlled, 5-45 to CA.												
		COMMENTS: A few ladder-vein like fracture fillings.												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS														
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb			
		134.2: Narrow <2cm qtz-Chl vein with strong local k-spar alteration of wallrock.															
		137.9 to 138.2: Three <1cm wide, vuggy qtz-calcite-Chl-ep-Py stringers 35-65 to CA, fracture controlled.															
		ALTERATION: 3-5% fine Py over 35-45cm, primarily from stringers.															
		STRUCTURE: Foliation weak 40-55 to CA.															
		134.95 to 149.9: Fine-med. grained qtz-fsp porphyry. Weakly foliated, moderately fractured..															
		ALTERATION: 3-5% fine disseminated Py increasing at depth. Biotite and zones of pale grey fsp +/- qtz rich remobilized/recrystallized material present below 148.3. 148.5-149.9 5-7% disseminated Py. Up to 7-10% over 30-50cm.															
		STRUCTURE: Well foliated below 146.6 at 50 to CA, below 146.8 foliation distorted to overprinted.															
		COMMENTS: Apparently a border zone of partially assimilated dacite, adjacent to M-UM body.															

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS												
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb	
149.9	170.79	MUM INTRUSIVE (MUM Intrus.) - fine-med.-coarse grained, medium-dark green. Apparently reasonably homogeneous in composition, varying mainly in grain size and degree of groundmass alteration. 149.5-151.8, fine grained, chilled?, mod. foliated. Mod-strong Chl-calcite alt, +/- weak serpentinization. No phenocrysts. 151.8-169.4, Transitional to med. grained pyroxenite-pyroxenitic gabbro, tr-1% Py. Patchy coarse k-spar as rare med.-lg. aggregates present from 153.3-154.05. Calcite-chlorite decrease with greater depth, replaced by serpentine. Interval averages about 50-60% subhedral pyroxene, 1-5mm, remainder pale green to whitish interstitial groundmass of fine alt products-largely from olivine breakdown?-Unit reaches max. grain size at 164-165m, and gradually fines with greater depth. tr magnetism at lower contact.	149.22	149.94	0.72	20.000	197.000	NIL	0.200	NIL	NIL	42.000	NIL	NIL	
			149.94	150.89	0.95	68.000	500.000	77.000	1.000	NIL	34.000	70.000	NIL	8.000	
			150.89	151.64	0.75	5.000	122.000	NIL	0.300	NIL	NIL	350.000	NIL	NIL	
			167.23	167.96	0.73	NIL	41.000	NIL	NIL	NIL	NIL	300.000	NIL	NIL	
			167.96	168.60	0.64	NIL	44.000	NIL	NIL	NIL	NIL	340.000	NIL	NIL	
			168.60	169.14	0.54	5.000	24.000	215.000	NIL	14.000	NIL	205.000	NIL	NIL	
			169.14	169.43	0.29	NIL	12.000	370.000	NIL	17.000	24.000	210.000	10.000	24.000	
			169.43	169.78	0.35	52.000	1590.000	72.000	2.400	28.000	32.000	460.000	15.000	56.000	
			169.78	170.03	0.25	48.000	515.000	76.000	1.500	30.000	22.000	370.000	5.000	28.000	
			170.03	170.46	0.43	30.000	185.000	122.000	0.400	48.000	26.000	73.000	NIL	8.000	
			170.46	170.78	0.32	12.000	150.000	114.000	0.900	43.000	14.000	52.000	NIL	NIL	
		ALTERATION: Weak calcite alt along fractures, grain boundaries, and pseudomorphing plagioclase? above 155m. tr 1% sm.-lg. Py aggregates above 167m. At 167.3, tr 1% Py Po, tr Cp present below 167.5. tr < 1% Po, tr Cp.													
		STRUCTURE: Top contact irregular. Intermixed, possibly in part due to minor movement along fractures, over about 40cm. Rather than dacitic inclusions contact													

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FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS									
						Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb	
		hosts, zone "flame structures" of mafic material extending into hornfelsed dacite. Foliation variable from 35-55 to CA, averaging about 45. Massive, subhedral equigranular. High Po.													
		169.4 to 170.79: Fine-very fine grained-chilled?-weakly-mod foliated, strongly magnetic throughout with abundant sulphide for top .6-.7m and partly assimilated dacite inclusions, within lowermost .7-.8m. Interval appears intensely deformed, but not quite sheared owing to contorted nature of fabric. Lowermost 7-.8m appears, to consist largely of serpentine, Chl,+ magnetite, 5% dacitic inclusions and sulphide.													
		ALTERATION: At 169.4 Po content goes from trace abruptly to 3-5%. By 169.5, 15-20% and by 169.55, 25-30%. Average 30-40% Po, 1% Cp from 169.4-170.13 with minor dacite inclusions. Min. disseminated to "semi-massive" streaks parallel to foliation, verging on net textured. Below 170.3, transition to 3-4% disseminated Po as med. sized aggregates/foliation parallel streaks, less than or equal to, 1% Cp significant-up to 30%-magnetite.													
		STRUCTURE: Foliation within lowermost .5m averages about 45 to CA. Foliation offset by minor fractures variable from 35-65 to CA, avg. probably 45-50.													

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		Lower contact sharp, somewhat irregular, subconcordant, averaging approx. 60 to CA. Foliation in dacite 55-65 to CA.												
170.79	192.9	FINE-MED. QID (QID, fg-mg) - similar to interval from 18.85-44.8. 1-3% sm.-med. sized qtz eyes. Weakly banded due to bleaching along foliation planes and subconcordant fractures. 170.79-172.2, weak-mod. pervasive k-spar alt, strongest at contact. 172.2-178.4 k-spar alt largely restricted to foliation slips/fractures. 189.5-193.0, interval strongly fractured to shattered, cemented with mm scale calcite fillings.	170.78	171.03	0.25	10.000	24.000	550.000	0.800	185.000	NIL	6.000	NIL	NIL
			171.03	171.83	0.80	5.000	32.000	38.000	NIL	2.000	NIL	NIL	NIL	NIL
			183.18	183.80	0.62	15.000	9.000	81.000	NIL	NIL	NIL	NIL	NIL	NIL
			183.80	184.25	0.45	30.000	21.000	75.000	NIL	NIL	NIL	NIL	NIL	NIL
			191.65	192.50	0.85	10.000	6.000	25.000	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: 2-3% fine disseminated Py on avg. 3-4% Py from 183.2-183.4. Small rare patches and streaks of remobilized qtz-calcite-Chl-Py occur below about 178m generally developed parallel to foliation. Narrow subconcordant to Crosscutting qtz-Py veinlets at 181.2, 183.8.												
		STRUCTURE: Top contact sharp, somewhat irregular subconcordant, averages 60-65 to CA. Foliation 50 to CA at 171m, 45 at 172m, 30-40 at 172.5-174m, 40-45 at 174-177m, 45-55 from 177-189m. Foliation 40-45 to CA at 190m.												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
192.9	200.05	FINE PYRITIC SEDIMENTS (Fine Pyritic Sediments) - possibly with interbedded ash tuffs, and or chemical sed. Fine grained, dark grey-brown to green-black. Well foliated streaked to banded with Py, brown biotite, and green chloritic bands through a dark grey silicious rock. Argillaceous in appearance and hardness, but mod-strongly magnetic from 196-200.05.	192.50	193.03	0.53	30.000	77.000	970.000	0.300	10.000	NIL	NIL	NIL	NIL
			193.03	193.92	0.89	75.000	134.000	1130.000	0.700	7.000	NIL	NIL	NIL	NIL
			193.92	195.27	1.35	50.000	72.000	340.000	0.300	8.000	NIL	NIL	NIL	NIL
			195.27	196.15	0.88	45.000	88.000	200.000	0.400	2.000	NIL	NIL	NIL	NIL
			196.15	196.74	0.59	20.000	103.000	225.000	NIL	2.000	NIL	NIL	NIL	NIL
			196.74	197.54	0.80	15.000	99.000	155.000	0.200	NIL	NIL	NIL	NIL	NIL
			197.54	198.66	1.12	NIL	102.000	149.000	0.200	NIL	NIL	51.000	NIL	NIL
			198.66	199.23	0.57	45.000	138.000	265.000	1.600	NIL	NIL	83.000	NIL	NIL
		ALTERATION: tr fine sphalerite in places along essentially CA parallel calcite stringers <1-2cm wide. Unit 3-5% disseminated med. size Py aggregates above 195.5. 5-7% Py on average from 195.5-200, disseminated to banded locally to 10% over .5m. 2-3% from 200-201.1. Po occurs with Py in two 1-3cm wide bands of disseminated, sulphide at 199.5, foliation parallel.	199.23	199.48	0.25	15.000	150.000	176.000	0.500	NIL	NIL	61.000	NIL	NIL
			199.48	200.05	0.57	25.000	108.000	210.000	0.900	NIL	NIL	54.000	NIL	NIL
		STRUCTURE: Foliation 45-50 to CA from 190-193. Units in fault contact over 40cm along calcite rich stringer parallel to CA, traceable over 1.9m of core length. Apparent offset 40cm, confirmed by Crosscutting 1cm wide qv. Contact foliation parallel at 45 to CA.												
200.05	204.4	FINE-MED. QID (QID, fg-mg) - similar to interval from 170.79-192.9, but with fewer eyes. Strongly fractured to shattered.	200.05	201.10	1.05	15.000	84.000	320.000	0.300	4.000	NIL	46.000	NIL	NIL
			201.10	202.53	1.43	10.000	31.000	138.000	NIL	7.000	NIL	12.000	NIL	NIL
			202.53	203.93	1.40	NIL	75.000	95.000	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: 2-3% fine-med. grained disseminated Py.												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		STRUCTURE: Foliation 45 to CA fracturing random.												
204.4	205.85	FINE PYRITIC SEDIMENT (Fine Pyritic Sediment) - similar to interval from 192.9-200.05. Well foliated, banded. 205.3 Crosscutting to subconcordant 5-8cm wide calcite rich vein with, tr Sph and 15-20% unidentified translucent cream-very pale yellow-green mineral. Resembles, barite, scheelite, or fluorite in mode of occurrence, but with equal or greater hardness than fsp.	203.93	204.56	0.63	NIL	24.000	395.000	NIL	22.000	NIL	NIL	NIL	NIL
			204.56	205.17	0.61	160.000	160.000	1400.000	1.200	35.000	NIL	NIL	NIL	NIL
			205.17	205.44	0.27	85.000	183.000	1480.000	1.000	190.000	NIL	NIL	NIL	NIL
		ALTERATION: 10-15% disseminated to banded Py generally fine. Weakly magnetic throughout.												
		STRUCTURE: Foliation 45-55 to CA.												
205.85	207.4	DACITIC CRYSTAL TUFF (QID, fg) - fine grained, dark grey. Nearly identical to interval from 200.05-204.4, but generally unfractured, and without qtz eyes.	205.49	206.00	0.51	65.000	132.000	420.000	0.600	26.000	NIL	NIL	NIL	NIL
			206.00	207.17	1.17	15.000	23.000	170.000	NIL	7.000	NIL	NIL	NIL	NIL
		ALTERATION: 2-3% fine disseminated Py. 3-5% over 15cm at both contacts, "absorbed" from sediments.												
		STRUCTURE: Foliation generally 50 to CA, 45-50 at lower contact.												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
207.4	210.0	FINE PYRITIC SEDIMENT (Fine Pyritic Sediment) - similar to interval from 204.4-205.85. - ALTERATION: 7-8% generally fine disseminated to banded Py, up to 10-15% over 10-25cm. - STRUCTURE: Foliation 50-55 to CA. Lower contact faulted almost perpendicular to foliation at approx. 40 to CA. Foliation 50 from 211-215.	207.17	208.05	0.88	30.000	117.000	214.000	0.300	1.000	NIL	NIL	NIL	NIL
			208.05	209.00	0.95	25.000	260.000	248.000	0.400	NIL	NIL	NIL	NIL	NIL
			209.00	209.96	0.96	80.000	161.000	3900.000	0.400	NIL	NIL	NIL	NIL	NIL
210.0	215.05	FINE-MED. GRAINED QID (QID, fg-mg) - similar to interval from 200.05-204.4, weakly banded. - ALTERATION: 1-3% fine disseminated Py.												
215.05	221.95	QTZ PORPHYRY INTRUSIVE (QTZ Porph. Intrus.) - may contain fsp? similar to interval from 52.15-59.3, but fine grained, dark grey, with 2-3% med.-lg. deep blue qtz eyes, 1-2% fine fsp phenocrysts only visible in places. - ALTERATION: 2-3% fine disseminated Py, some euhedral. - STRUCTURE: Contact subconcordant 40-45 to CA. Foliation, banding along fractures 50-55 to CA.												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
221.95	227.32	<p>COARSE QID (QID, cg) - Possibly a flow. Medium grey-green, with 5-7% med.-lg. qtz eyes. Strongly foliated, with several medium grained sections containing up to 20% fine mafic silicates. Unit contains 1-2% fine-med. fsp phenocrysts, up to 5% locally, occasionally coarse grained.</p> <p>.</p> <p>ALTERATION: 1-3% sm.-lg. Py aggregates 1-3mm. Less than or equal to 1mm wide seams of tourmaline along subconcordant fractures at 225.4, 225.6. tr garnet at 224.6, 224.9. 1%-2-3% fine-coarse, < 2mm garnet present locally below 225.25.</p> <p>.</p> <p>STRUCTURE: Foliation 55 to CA at 225. 50 to CA at 226.5.</p>												
227.32	227.74	<p>PYRITIC SEDIMENT (Pyritic Sediment) - Medium grained, dark grey. Similar to previous intervals of this unit, but containing appreciably more feldspathic constituents. Probably an arenite or grey wacke rather than an argillite.</p> <p>.</p> <p>ALTERATION: 8-10% sm.-med. Py aggregates on average, 10-12% over upper 1/2 of this unit.</p> <p>.</p>												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		STRUCTURE: Foliation 55 to CA.												
227.74	380.1	FINE-MED. QID (QID, fg-mg) - fine-med. grained, grey-light green. Strongly foliated, 3-5% sm.-med. qtz eyes, locally up to 7-8% over 20-50cm. Weakly-mod bleached, sericitized, and banded throughout. Averaging less than or equal to, 1% vein material from subconcordant to Crosscutting 2mm-1cm wide qtz +/- Calc-Chl-Py, tr Cp stringers.	227.30	227.84	0.54	90.000	210.000	390.000	0.800	NIL	NIL	NIL	NIL	NIL
			233.56	234.24	0.68	90.000	44.000	600.000	0.400	40.000	NIL	NIL	NIL	NIL
			235.50	236.35	0.85	65.000	41.000	200.000	0.400	17.000	NIL	NIL	NIL	NIL
			236.35	236.92	0.57	540.000	21.000	120.000	0.200	24.000	NIL	NIL	NIL	NIL
			236.92	238.10	1.18	135.000	16.000	250.000	0.200	18.000	NIL	NIL	NIL	NIL
			238.10	238.58	0.48	220.000	8.000	205.000	0.200	22.000	NIL	NIL	NIL	NIL
			238.58	239.15	0.57	75.000	34.000	460.000	0.300	23.000	NIL	NIL	NIL	NIL
			239.15	239.50	0.35	65.000	23.000	330.000	0.700	40.000	NIL	NIL	NIL	NIL
		ALTERATION: Fine-coarse garnet present locally at levels up to 2-3% over 10cm between 227.74 and mafic dykes at 248.7. Below 249 garnet content averages 1%.	239.50	240.47	0.97	385.000	20.000	135.000	0.300	26.000	NIL	NIL	NIL	NIL
			240.47	241.97	1.50	225.000	19.000	260.000	0.700	44.000	NIL	NIL	NIL	NIL
		3-4% fine disseminated Py with some as rare narrow, less than or equal to, 1mm streaks/seams parallel to foliation. tr disseminated Sph at 233, 238.3.	241.97	242.60	0.63	70.000	34.000	160.000	1.000	62.000	NIL	NIL	NIL	NIL
			242.60	243.91	1.31	75.000	31.000	165.000	0.400	60.000	NIL	NIL	NIL	NIL
			243.91	244.39	0.48	230.000	154.000	270.000	1.600	116.000	NIL	NIL	NIL	NIL
			244.83	245.17	0.34	70.000	24.000	90.000	0.400	70.000	NIL	NIL	NIL	NIL
			248.40	248.85	0.45	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		STRUCTURE: Foliation 55 to CA at 230, 45 at 231, 45-50 at 232, foliation 55 to CA at 235-248.5. Weak kinking occasionally present below 236m.	248.85	249.22	0.37	115.000	34.000	27.000	0.600	30.000	NIL	NIL	NIL	NIL
			249.22	250.72	1.50	55.000	19.000	75.000	NIL	34.000	NIL	NIL	NIL	NIL
			250.72	252.20	1.48	40.000	15.000	69.000	NIL	32.000	NIL	NIL	NIL	NIL
			252.20	252.72	0.52	70.000	12.000	93.000	NIL	90.000	NIL	NIL	NIL	NIL
		244.0 to 244.25: Several tension gash like qtz veins.	252.72	254.08	1.36	35.000	12.000	74.000	NIL	95.000	NIL	NIL	NIL	NIL
			254.08	254.55	0.47	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: Within qtz 1% Py, tr Sp, Cp.	254.55	255.82	1.27	20.000	10.000	44.000	NIL	24.000	NIL	NIL	NIL	NIL
			255.82	256.23	0.41	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		STRUCTURE: Vein contacts crosscut foliation at nearly 90 degrees-45-50 to CA.	261.60	262.00	0.40	75.000	36.000	143.000	0.600	27.000	NIL	NIL	NIL	NIL
			265.00	265.71	0.71	65.000	21.000	342.000	0.800	86.000	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
.			265.71	267.00	1.29	100.000	40.000	830.000	1.300	186.000	NIL	NIL	NIL	NIL
	248.38 to 248.84:	Mafic dyke, fine grained, dark green pyroxenitic gabbro?	267.00	268.20	1.20	115.000	19.000	510.000	0.500	56.000	NIL	NIL	NIL	NIL
.			268.20	268.76	0.56	135.000	37.000	3100.000	1.100	112.000	NIL	NIL	NIL	NIL
.			268.76	269.41	0.65	90.000	24.000	780.000	0.600	62.000	NIL	NIL	NIL	NIL
	ALTERATION: 3-4% fine disseminated Py.		269.71	270.00	0.29	1090.000	157.000	3300.000	4.500	278.000	NIL	NIL	NIL	NIL
.			270.00	271.20	1.20	615.000	41.000	2200.000	1.100	132.000	NIL	NIL	NIL	NIL
	STRUCTURE: Dyke contacts crosscutting at 45 to CA.		274.86	275.18	0.32	360.000	780.000	760.000	1.700	110.000	NIL	NIL	NIL	NIL
.			276.28	276.75	0.47	135.000	21.000	375.000	0.500	70.000	NIL	NIL	NIL	NIL
	254.1 to 254.55: Mafic dyke, similar to 244-244.25, with qtz-Calc-Py stringer at top contact. Coarse calcite filling open fracture at approx. 90 to CA, 1cm wide at 254.12.		282.82	283.64	0.82	550.000	102.000	3600.000	2.200	780.000	NIL	NIL	NIL	NIL
.			283.64	284.22	0.58	2730.000	335.000	3000.000	3.100	680.000	NIL	NIL	NIL	NIL
.			284.22	284.92	0.70	935.000	26.000	155.000	0.600	172.000	NIL	NIL	NIL	NIL
.			284.92	285.66	0.74	505.000	40.000	1780.000	0.500	135.000	NIL	NIL	NIL	NIL
.			285.66	286.80	1.14	350.000	47.000	1750.000	0.700	160.000	NIL	NIL	NIL	NIL
	ALTERATION: 249.0, three bands of disseminated Py up to 1cm wide. 1% v. fine disseminated Py.		286.80	288.30	1.50	205.000	34.000	1500.000	0.700	420.000	NIL	NIL	NIL	NIL
.			292.64	292.90	0.26	415.000	188.000	4100.000	1.100	195.000	NIL	NIL	NIL	NIL
.			292.90	293.55	0.65	210.000	33.000	450.000	0.300	112.000	NIL	NIL	NIL	NIL
	STRUCTURE: Contacts concordant-subconcordant at approx. 50 to CA.		293.55	293.92	0.37	250.000	25.000	110.000	0.200	67.000	NIL	NIL	NIL	NIL
.			297.40	298.10	0.70	230.000	29.000	595.000	0.500	222.000	NIL	NIL	NIL	NIL
.			298.10	298.98	0.88	210.000	155.000	3300.000	1.100	375.000	NIL	NIL	NIL	NIL
	255.85 to 256.25: Mafic dyke similar to interval from 244.0-244.25.		298.98	300.40	1.42	160.000	152.000	3400.000	1.100	165.000	NIL	NIL	NIL	NIL
.			300.40	301.45	1.05	130.000	70.000	1680.000	0.700	53.000	NIL	NIL	NIL	NIL
.			301.45	302.30	0.85	150.000	19.000	515.000	0.300	39.000	NIL	NIL	NIL	NIL
	ALTERATION: 3-5% fine disseminated Py.		302.30	303.50	1.20	205.000	95.000	2000.000	0.800	51.000	NIL	NIL	NIL	NIL
.			303.50	304.82	1.32	285.000	26.000	835.000	0.500	105.000	NIL	NIL	NIL	NIL
	STRUCTURE: Foliation 50-55 to CA. Crosscutting contacts top 35, bottom 25 to CA.		304.82	305.24	0.42	1730.000	460.000	9650.000	2.600	600.000	NIL	NIL	NIL	NIL
.			305.24	305.60	0.36	355.000	48.000	1050.000	0.900	92.000	NIL	NIL	NIL	NIL
.			305.60	306.60	1.00	560.000	118.000	3950.000	0.900	84.000	NIL	NIL	NIL	NIL
	257.52 to 257.83: Mafic dyke similar to interval		306.60	307.08	0.48	490.000	134.000	2800.000	1.000	29.000	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		from 244-244.25.	307.08	307.54	0.46	6870.000	360.000	0.015	5.200	172.000	NIL	NIL	NIL	NIL
		.	307.54	309.60	2.06	1270.000	118.000	1700.000	1.300	43.000	NIL	NIL	NIL	NIL
		ALTERATION: 2-3% fine disseminated Py.	309.60	310.66	1.06	375.000	38.000	2000.000	0.400	32.000	NIL	NIL	NIL	NIL
		.	310.66	311.81	1.15	1670.000	48.000	1750.000	0.800	33.000	NIL	NIL	NIL	NIL
		STRUCTURE: Contacts Crosscutting 30 to CA.	311.81	312.33	0.52	1220.000	48.000	4350.000	0.700	32.000	NIL	NIL	NIL	NIL
		.	312.33	313.23	0.90	250.000	42.000	1800.000	NIL	24.000	NIL	NIL	NIL	NIL
		257.83 to 269.75: 1-2% fine garnets present.	313.23	314.15	0.92	330.000	60.000	2030.000	0.500	29.000	NIL	NIL	NIL	NIL
		Subconcordant qtz-Py veins at 262, 262.1, 265.1, 265.4, 1-2cm wide.	314.15	315.37	1.22	165.000	102.000	3150.000	0.600	25.000	NIL	NIL	NIL	NIL
		.	315.37	316.62	1.25	465.000	81.000	3000.000	0.500	45.000	NIL	NIL	NIL	NIL
		.	316.62	317.52	0.90	220.000	80.000	2250.000	0.500	35.000	NIL	NIL	NIL	NIL
		ALTERATION: tr Sp present from place to place below 259m.	317.52	318.40	0.88	245.000	105.000	6650.000	0.700	44.000	NIL	NIL	NIL	NIL
		.	318.40	319.36	0.96	120.000	62.000	1730.000	0.400	47.000	NIL	NIL	NIL	NIL
		.	319.36	320.12	0.76	120.000	36.000	1180.000	0.200	40.000	NIL	NIL	NIL	NIL
		STRUCTURE: Foliation 55 to CA at 257.	320.12	320.73	0.61	270.000	111.000	2280.000	0.600	48.000	NIL	NIL	NIL	NIL
		.	320.73	321.23	0.50	125.000	140.000	4200.000	0.800	49.000	NIL	NIL	NIL	NIL
		267.0-273.15: Medium grained interval with 1-3% qtz eyes weakly banded.	321.23	321.86	0.63	125.000	59.000	1700.000	0.400	31.000	NIL	NIL	NIL	NIL
		.	321.86	322.43	0.57	115.000	31.000	870.000	0.400	38.000	NIL	NIL	NIL	NIL
		.	322.43	322.85	0.42	140.000	145.000	5400.000	0.800	49.000	NIL	NIL	NIL	NIL
		ALTERATION: 2-3% fine disseminated Py. Gnt. disappears abruptly at 273.15. Minor galena in a 2 x 3cm patch of qtz-calcite at 276.5m. Garnet present locally at < 1% level below 281m, usually within remobilized qtz-Calc-Chl-Py streaks. Below 286, rock poss. 1% fine disseminated Gnt. on average. Locally to 3-4% over 15cm.	322.85	323.95	1.10	180.000	19.000	1270.000	0.500	54.000	NIL	NIL	NIL	NIL
		.	323.95	324.80	0.85	300.000	48.000	1300.000	0.700	62.000	NIL	NIL	NIL	NIL
		.	324.80	325.60	0.80	250.000	62.000	1850.000	0.600	47.000	NIL	NIL	NIL	NIL
		.	325.60	326.80	1.20	275.000	50.000	1440.000	0.600	42.000	NIL	NIL	NIL	NIL
		.	326.80	327.62	0.82	350.000	65.000	1700.000	0.300	47.000	NIL	NIL	NIL	NIL
		.	327.62	328.31	0.69	1210.000	117.000	5230.000	1.000	53.000	NIL	NIL	NIL	NIL
		.	328.31	329.25	0.94	60.000	26.000	1350.000	0.200	21.000	NIL	NIL	NIL	NIL
		269.75 to 270: Py-qtz-Calcite stringers 2-5cm wide, subconcordant to Crosscutting.	329.25	330.05	0.80	140.000	131.000	4220.000	0.500	36.000	NIL	NIL	NIL	NIL
		.	330.05	330.49	0.44	100.000	51.000	1080.000	NIL	24.000	NIL	NIL	NIL	NIL
		.	332.68	333.19	0.51	240.000	96.000	7800.000	0.600	60.000	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		ALTERATION: 10-15% v. fine Py over 25cm.	333.19	333.68	0.49	60.000	62.000	1600.000	0.500	88.000	NIL	NIL	NIL	NIL
		-	333.68	334.93	1.25	55.000	32.000	305.000	NIL	42.000	NIL	NIL	NIL	NIL
		283.15 to 284.9: streaked/splashed with dark grey wisps of remobilized qtz-3-5% of rock-up to 5 x 2cm long.	334.93	336.21	1.28	30.000	34.000	580.000	0.300	45.000	NIL	NIL	NIL	NIL
		-	336.21	337.10	0.89	310.000	53.000	960.000	0.400	50.000	NIL	NIL	NIL	NIL
		-	337.10	337.50	0.40	785.000	138.000	3000.000	0.600	13.000	NIL	NIL	NIL	NIL
		ALTERATION: 3-5% disseminated to somewhat banded Py. tr. disseminated Sph at 285.5.	337.50	338.20	0.70	1120.000	100.000	2600.000	0.900	28.000	NIL	NIL	NIL	NIL
		-	338.20	338.95	0.75	330.000	49.000	1050.000	NIL	16.000	NIL	NIL	NIL	NIL
		-	338.95	339.55	0.60	180.000	26.000	200.000	NIL	13.000	NIL	NIL	NIL	NIL
		STRUCTURE: Foliation 50 to CA, weakly kinked.	339.55	340.35	0.80	360.000	82.000	4400.000	1.900	96.000	NIL	NIL	NIL	NIL
		-	340.35	340.95	0.60	1940.000	1300.000	0.014	5.000	133.000	NIL	NIL	NIL	NIL
		COMMENTS: Interval from 273.15-fine grained.	340.95	341.22	0.27	510.000	78.000	700.000	1.900	76.000	NIL	NIL	NIL	NIL
		-	341.22	342.04	0.82	610.000	39.000	1850.000	0.500	40.000	NIL	NIL	NIL	NIL
		290.8: Subconcordant, irregular walled qtz vein.	342.04	342.47	0.43	435.000	220.000	6950.000	2.500	43.000	NIL	NIL	NIL	NIL
		-	342.47	343.11	0.64	210.000	44.000	1750.000	0.600	16.000	NIL	NIL	NIL	NIL
		ALTERATION: 1-2% Sph within vein, tr Sph in wallrock.	343.11	343.52	0.41	360.000	106.000	3800.000	1.200	96.000	NIL	NIL	NIL	NIL
		-	343.52	343.80	0.28	90.000	24.000	1200.000	0.200	24.000	NIL	NIL	NIL	NIL
		STRUCTURE: Vein at 30 to CA, foliation 50 to CA.	343.80	344.46	0.66	180.000	51.000	3500.000	0.800	47.000	NIL	NIL	NIL	NIL
		-	344.46	345.62	1.16	150.000	32.000	1280.000	1.800	230.000	NIL	NIL	NIL	NIL
		239.9: Crosscutting 1-2cm wide qv.	345.62	346.20	0.58	135.000	33.000	620.000	0.700	88.000	NIL	NIL	NIL	NIL
		-	346.20	347.05	0.85	100.000	24.000	735.000	0.200	13.000	NIL	NIL	NIL	NIL
		ALTERATION: 1% Py, tr Cp Gn. tr disseminated Sph from 249.	347.05	347.93	0.88	85.000	13.000	1450.000	0.200	7.000	NIL	NIL	NIL	NIL
		-	347.93	348.93	1.00	105.000	15.000	930.000	NIL	4.000	NIL	NIL	NIL	NIL
		299 to 304.5: Weakly mineralized	348.93	349.47	0.54	120.000	18.000	5750.000	0.700	9.000	NIL	NIL	NIL	NIL
		-	349.47	349.82	0.35	155.000	47.000	8200.000	1.400	16.000	NIL	NIL	NIL	NIL
		ALTERATION: Less than or equal to, 1% disseminated Sph present below about 299.	349.82	350.77	0.95	85.000	24.000	205.000	0.500	10.000	NIL	NIL	NIL	NIL
		-	350.77	351.87	1.10	10.000	5.000	62.000	NIL	29.000	NIL	NIL	NIL	NIL
		-	351.87	352.58	0.71	35.000	7.000	830.000	0.200	17.000	NIL	NIL	NIL	NIL
		STRUCTURE: 3-4% fine disseminated Py also present but very	352.58	353.20	0.62	50.000	4.000	87.000	NIL	19.000	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		rarely as bands/seams.	353.20	353.94	0.74	35.000	9.000	280.000	0.200	12.000	NIL	NIL	NIL	NIL
		.	353.94	354.82	0.88	15.000	6.000	273.000	NIL	7.000	NIL	NIL	NIL	NIL
		304.5 to 318: "Well" mineralized with Sph.	354.82	355.30	0.48	25.000	32.000	2250.000	NIL	14.000	NIL	NIL	NIL	NIL
		.	355.30	356.02	0.72	30.000	8.000	230.000	NIL	4.000	NIL	NIL	NIL	NIL
		ALTERATION: Subconcordant to Crosscutting fracture-controlled Sph seams occur below 304.5-318.0, in addition to disseminations, best intervals, less than or equal to, 2% Sph over .5m at 305.25 with 5-7% Py.	356.24	356.83	0.59	80.000	91.000	1230.000	0.700	5.000	NIL	NIL	NIL	NIL
		307.5, 312.25, 317.75.	356.83	357.51	0.68	115.000	68.000	3800.000	0.900	6.000	NIL	NIL	NIL	NIL
		.	357.51	358.40	0.89	225.000	26.000	1180.000	1.000	20.000	NIL	NIL	NIL	NIL
		318-330: Moderately mineralized, weak sericitization.	358.40	358.98	0.58	205.000	49.000	2600.000	1.000	19.000	NIL	NIL	NIL	NIL
		Well foliated, banded-05-2cm scale-to weakly sheared with numerous narrow sericite rich shear 317-planes.	358.98	359.42	0.44	170.000	36.000	1850.000	0.600	4.000	NIL	NIL	NIL	NIL
		.	359.42	360.45	1.03	145.000	34.000	860.000	0.300	7.000	NIL	NIL	NIL	NIL
		ALTERATION: Below about 317 Gnt. largely restricted to small wispy patches of remobilized material. Average level < 1% to trace as is disseminated Sph, concentrated along sulphide rich foliation parallel shear planes and along crosscutting fractures with irregular narrow veinlets and patches of qtz.	360.45	361.40	0.95	155.000	48.000	190.000	0.200	7.000	NIL	NIL	NIL	NIL
		.	361.40	361.85	0.45	205.000	27.000	105.000	NIL	5.000	NIL	NIL	NIL	NIL
		335 to 348: Mod.-strongly mineralized interval resembling 318-330m. Sulphides primarily banded along foliation parallel and less common crosscutting fractures.	361.85	362.68	0.83	330.000	30.000	500.000	0.300	10.000	NIL	NIL	NIL	NIL
		Rock fine grained, less than or equal to, 1% sm. qtz eyes.	362.68	362.96	0.28	500.000	56.000	195.000	1.000	18.000	NIL	NIL	NIL	NIL
		.	362.96	363.27	0.31	180.000	58.000	2900.000	1.000	28.000	NIL	NIL	NIL	NIL
		ALTERATION: 5-7% Py on average locally to 7-8% over 5m. Less than or equal to, 1% Sph, up to 1-2% over .3-	363.27	364.17	0.90	370.000	104.000	6100.000	1.200	25.000	NIL	NIL	NIL	NIL
		.	364.17	364.69	0.52	670.000	160.000	6800.000	1.400	26.000	NIL	NIL	NIL	NIL
			364.69	365.13	0.44	655.000	260.000	7200.000	3.400	51.000	NIL	NIL	NIL	NIL
			365.13	365.41	0.28	2640.000	1050.000	4700.000	4.600	48.000	NIL	NIL	NIL	NIL
			365.41	365.54	0.13	475.000	153.000	7900.000	1.400	85.000	NIL	NIL	NIL	NIL
			365.54	365.65	0.11	NIL	2000.000	0.086	332.000	280.000	NIL	NIL	NIL	NIL
			365.65	365.78	0.13	500.000	57.000	2500.000	1.000	63.000	NIL	NIL	NIL	NIL
			365.78	366.06	0.28	280.000	130.000	4800.000	1.000	24.000	NIL	NIL	NIL	NIL
			366.06	366.46	0.40	275.000	48.000	2000.000	0.600	27.000	NIL	NIL	NIL	NIL
			366.46	367.02	0.56	200.000	130.000	3700.000	1.000	28.000	NIL	NIL	NIL	NIL
			367.02	367.50	0.48	200.000	60.000	3300.000	0.600	35.000	NIL	NIL	NIL	NIL
			367.50	367.86	0.36	300.000	51.000	3700.000	0.400	37.000	NIL	NIL	NIL	NIL
			367.86	368.22	0.36	135.000	43.000	2200.000	0.400	20.000	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		.5m e.g. 340.5-341, tr Cp, up to, less than or equal to 1% in Sph rich intervals.	368.22	368.59	0.37	340.000	55.000	3900.000	0.800	40.000	NIL	NIL	NIL	NIL
		.	368.59	369.02	0.43	480.000	5.000	5100.000	0.400	26.000	NIL	NIL	NIL	NIL
		.	369.02	369.50	0.48	355.000	66.000	5100.000	0.600	43.000	NIL	NIL	NIL	NIL
		STRUCTURE: Foliation 50 to CA at 331m, 55 at 332.5,	369.50	370.10	0.60	190.000	67.000	5100.000	0.600	25.000	NIL	NIL	NIL	NIL
		50 at 334, 45 at 337, variable from 45-55 from 340-353m.	370.10	370.60	0.50	1090.000	90.000	6200.000	0.900	20.000	NIL	NIL	NIL	NIL
		.	370.60	371.08	0.48	420.000	47.000	5200.000	0.600	37.000	NIL	NIL	NIL	NIL
		COMMENTS: No garnet, no qtz veining of any significance.	371.08	371.29	0.21	285.000	17.000	1400.000	0.400	45.000	NIL	NIL	NIL	NIL
		.	371.29	371.54	0.25	250.000	19.000	8900.000	0.600	46.000	NIL	NIL	NIL	NIL
		348 to 380.1: Fine-med. grained dacite, 2-3% sm.-med. size qtz eyes. Weakly-mod. banded due to sericite rich shear planes and disseminated to banded sulphides in places. Including,	371.54	371.91	0.37	180.000	12.000	1450.000	0.600	31.000	NIL	NIL	NIL	NIL
		363.1-372m, moderately well mineralized interval with locally abundant garnet, 3-4% over 5-10cm, Sulphide	371.91	372.46	0.55	155.000	14.000	300.000	0.400	18.000	NIL	NIL	NIL	NIL
		qtz seams at 364.6 contorted, Crosscutting, 2-5mm wide, Py	372.46	372.77	0.31	300.000	28.000	8800.000	1.000	25.000	NIL	NIL	NIL	NIL
		only. 365.6, 5cm wide Py, Sp >> Cp > Gn > Au. Au appears to have an affinity for, but not always be enclosed within, or associated with the vein qtz present.	372.77	373.60	0.83	90.000	22.000	312.000	0.300	15.000	NIL	NIL	NIL	NIL
		365.95, < 1cm wide minor Py, Sp, tr Cp, Gn.	373.60	374.10	0.50	65.000	19.000	145.000	0.200	16.000	NIL	NIL	NIL	NIL
		368.45, < 1cm wide, Sp, tr Cp. 370.6,	375.00	375.50	0.50	75.000	19.000	67.000	0.200	12.000	NIL	NIL	NIL	NIL
		2-3cm wide, Sp, Py, tr Cp. 371.40, 2-3mm wide, concordant to Crosscutting, Py, Sp >> Cp.	378.20	378.50	0.30	120.000	8.000	120.000	0.300	5.000	NIL	NIL	NIL	NIL
		.	378.50	379.90	1.40	125.000	15.000	88.000	0.300	1.000	NIL	NIL	NIL	NIL
		ALTERATION: 2-3% fine disseminated Py weakly bleached, weak-mod. sericitization throughout, tr Sph present locally below about 358.5m. Interval averages, 3-5% largely disseminated Py, less than or equal to, 1% Sph, but with several sections, less than or equal to, 5m with 1-2% disseminated to banded Sp, tr Cp along fractures with Sp fine-crs.	379.90	380.05	0.15	290.000	23.000	47.000	0.900	NIL	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS														
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb			
		VG present along sulphide rich 5cm wide fracture at 365.6. Gold clustered within 2cm diameter patch on exterior of core, extends 1cm into core. Trace 5-10 fine-v. fine specks, present elsewhere along fracture.															
		STRUCTURE: Foliation 55-60 to CA from 353-357. Foliation 50 to CA at 357.5 Foliation 55-60 to CA from 358-374m.															
		COMMENTS: Native Au present, with minor qtz Sp, and relatively abundant Cp Gn along 5cm wide concordant sulphide seam fracture filling. Sample 72688:11.5cm, 12% sulphide, 5-7% Py, 5-7% Sp, 1-2% Cp, tr-.5% Gn? tr-.1% Au, less than or equal to 2% vein qtz.															
		378.1: Less than or equal to 1cm wide concordant qtz stringer with tourmalinization over 1mm at both contacts.															
		ALTERATION: 372.3-372.7, 1-2% Sp present over 30cm, disseminated to banded similar to interval from 363.1-372. Garnet averages, less than or equal to, 1% over interval disappearing below 372.75.															
		380 to 380.1: Veined "sheared" contact with tourmaline present along shear planes similar to the mode of occurrence of sericite.															

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS												
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb	
		ALTERATION: Vein 1-2cm wide, 3-5% disseminated to narrowly banded Py, over interval.													
		STRUCTURE: Foliation vein, contact at 55-60 to CA. Foliation 60-65 to CA from 374-380m.													
380.1	403.98	MED.-CRS. QID (QID, mg-cg) - similar to interval from 47.35-52.15. Generally unbanded weakly-mod. bleached. 3-5% sm.-med. size qtz eyes. 3-5% locally to 5-7% fine mafic silicates, as < 1mm clusters with calcite. 380.65-381.85, Crosscutting qtz vein largely barren sulphides concentrated along lower contact 381.5-381.85 along fractures and as "coarse" grained open space fillings to 1-2cm diameter often with calcite. Dacite similar to interval above vein, but coarse grained sub-interval contact at 385.88, abrupt grain size change; coarse above, fine grading coarser below.	380.05	380.52	0.47	70.000	55.000	67.000	0.700	4.000	NIL	NIL	NIL	NIL	
			380.52	380.82	0.30	90.000	15.000	56.000	0.500	3.000	NIL	NIL	NIL	NIL	
			380.82	381.48	0.66	NIL	3.000	6.000	NIL	NIL	NIL	NIL	NIL	NIL	
			381.48	381.87	0.39	130.000	40.000	5800.000	0.700	4.000	NIL	NIL	NIL	NIL	
			381.87	383.15	1.28	55.000	63.000	85.000	0.600	10.000	NIL	NIL	NIL	NIL	
			387.88	388.68	0.80	135.000	28.000	126.000	0.300	4.000	NIL	NIL	NIL	NIL	
			388.68	388.90	0.22	255.000	175.000	4350.000	1.900	5.000	NIL	NIL	NIL	NIL	
			388.90	389.81	0.91	35.000	43.000	218.000	0.500	43.000	NIL	NIL	NIL	NIL	
			389.81	390.63	0.82	45.000	58.000	180.000	1.000	63.000	NIL	NIL	NIL	NIL	
			390.63	391.03	0.40	75.000	16.000	253.000	0.500	5.000	NIL	NIL	NIL	NIL	
			391.03	391.58	0.55	55.000	4.000	42.000	0.200	2.000	NIL	NIL	NIL	NIL	
			391.58	392.10	0.52	110.000	1.000	7.000	NIL	3.000	NIL	NIL	NIL	NIL	
		ALTERATION: 2-3% fine disseminated Py. Rock locally mod. bleached adjacent to the larger qtz veins over core lengths of .25-1.0m. Tourmaline is present occasionally as narrow, less than or equal to, 1mm wide intergrown fracture fillings from 382-391. 1-2/30cm along foliation parallel shear planes. May also be present as fine crystals in ground mass. 381.5-381.85, vein minor Py near top contact, tr calcite throughout lower contact 2-3% Sph, 1- <2% Py, tr Gn over 35cm. 2-3%	392.10	392.64	0.54	NIL	2.000	3.000	NIL	NIL	NIL	NIL	NIL	NIL	
			392.64	393.44	0.80	NIL	2.000	4.000	NIL	NIL	NIL	NIL	NIL	NIL	
			393.44	393.70	0.26	125.000	4.000	17.000	0.400	1.000	NIL	NIL	NIL	NIL	
			393.70	394.08	0.38	90.000	17.000	45.000	0.400	6.000	NIL	NIL	NIL	NIL	
			395.90	396.38	0.48	120.000	98.000	35.000	1.800	5.000	NIL	NIL	NIL	NIL	
			396.38	396.70	0.32	15.000	35.000	245.000	NIL	2.000	NIL	NIL	NIL	NIL	
			396.70	397.16	0.46	50.000	52.000	62.000	1.000	7.000	NIL	NIL	NIL	NIL	
			401.84	402.37	0.53	610.000	75.000	222.000	1.200	2.000	NIL	NIL	NIL	NIL	

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		fine disseminated Py some as <1mm seams along subconcordant fractures. Tourmaline present along some concordant-subconcordant fractures. Similar to 382-391. Sulphide Sph -Py, qtz along subconcordant fractures, less than or equal to, 1cm wide 1-2% Sp over 20-25cm at 388.75.												
		STRUCTURE: Foliation 60-65 to CA above 387. Foliation 55 to CA at 390, 50-55 to CA from 388. Foliation 50-55 to CA at 380.5 due to proximity to veining Vein top contact 15-20 to CA. Lower contact, less than or equal to, 10 to CA.												
		390.6 to 393.6: Qtz vein similar to vein from 380.65-381.85.												
		ALTERATION: Minor Py, tr tourmaline along top contact.												
		STRUCTURE: Top contact occurs over 70cm core length. Lower contact over 30-35cm.												
		393.9 to 394.85: CA parallel qtz stringer 1mm-1.5cm wide.												
		ALTERATION: Tr Py, tourmaline. Minor calcite.												
		396 to 396.75: Qtz vein similar to previous low-angle intersections.												
		ALTERATION: Minor Py Chl along top contact. 3-4% fine disseminated Py in wallrock.												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS										
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		STRUCTURE: Top contact occurs over 30-35cm core length. Lower contact, foliation parallel at 40 to CA.											
		COMMENTS: Vein possibly, very irregular, walled.											
		396.45 to 396.65: Peridotitic dyke. Crosscutting fine grained dark green dyke. Weakly foliated, appears to be serpentinized peridotite. Non-magnetic.											
		ALTERATION: 1% fine Py, strong calcite alteration throughout +/- fine Chl serpentine.											
		STRUCTURE: Dyke top contact planar 40 to CA. Weakly undulatory contact with vein. Lower contact sharp but irregular, parallel to top.											
		369.75 to 403.98: Coarse dacite, mod bleached. 5-7% med.-lg. qtz eyes. 3-4% fine disseminated Py.											
		ALTERATION: Uniform bleaching ends at 402m. Bleaching restricted to < 1-2cm mod-strongly bleached bands along subconcordant fractures. Some with mm wide Py bands sealing fracture. 3-5% disseminated to banded Py below 402m.											
		STRUCTURE: Foliation 45-50 to CA at 397m, steadily increasing to 70 to CA at 401m.											

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
403.98	404.56	<p>ALTERED MAFIC DYKE (Altered Maf. Dyke) - fine grained medium brownish-green. Approx. composition 30-40% dark green amphibole, partly chloritized, 20-30% pale biotite +/- phlogopite. 30% sausseritized plagioclase. 15-20% calcite, assoc. with plagioclase. Crosscutting, weakly foliated, possibly dioritic in original bulk chemistry.</p> <p>ALTERATION: Mod-strongly calcite altered throughout. tr 1% Py.</p> <p>STRUCTURE: Both contacts crosscut foliation in dacites, by 45-60. Contact 70 to CA. Lower contact 50 to CA. Foliation 65-70 to CA at 405m, 40-45 at 408m, above 60 to CA at 410m.</p> <p>404.56: MED.-CRS. QID (QID, mg-cg) - similar to interval from 380.1-403.98. 406.95-408.7, long irregular fracture .5-2cm wide, essentially parallel to CA filled with abundant fine chlorite, minor calcite, trace qtz.</p> <p>ALTERATION: 3-4% disseminated Py .5cm wide foliation parallel Py-qtz seam at 406.05 mm wide Sp bands at 408.5, 410, 410.3.</p> <p>STRUCTURE: 50-60 averaging 55 to CA from 412-420.</p> <p>410 to 416.75: Banded due to strong bleaching over 1-10cm intervals, rare narrow sulphide +/- qtz seams.</p> <p>ALTERATION: 2-3% Py on average. tr 1% Sph, disseminated to rare</p>												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS														
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb			
		narrow seams from 411.9-412.4, 413.6-414.2, 416.3-416.75.															
		STRUCTURE: 420-433m, foliation 60 to CA.															
		416.75 to 428: Moderately bleached banded due to sericite concentration along foliation/shear planes. Sulphides disseminated to banded. Identifiable "flow" contacts at 416.85-419.4.															
		ALTERATION: 5-7% disseminated to banded Py, tr 1% Sph over 5cm at 418.4 and over 20-25cm at 419.35, tr Sph at 425.2, 426. Garnet present at tr-1% level from 412.5-416.5.															
		STRUCTURE: tr garnet, at 418.4, 418.9 with Sph and from 427.5-429.5 with remobilized fine dark grey qtz. Py sericite both more abundant in finer grained intervals.															
		428-435: Well mineralized interval of dacite with largely fracture controlled foliation parallel sulphide +/- qtz seams.															
		ALTERATION: 7-8% streaky disseminated to banded Py. Possibly 1% combined Sp and Cp. Cp confined to fractures, Sp largely so. 4-6 fine specks of (native Au present along small discontinuous fracture at 432.75.)															
		STRUCTURE: Foliation 65 to CA at 433.5, 55 to CA															

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS														
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb			
		at 434m.															
		435 to 437.1: Weakly mineralized dacite, disseminated to banded sulphides. Mod. bleached. Including 8-10cm wide grey qtz vein at 437.5.															
		437.1 to 437.2: Abrupt contact, fine-med. grained 2-3% sm. qtz eyes above. Strongly banded with 5-7% med. qtz eyes below.															
		ALTERATION: Vein at, 437.5 1-2% fine Py < 1% Cp, tr Asp.															
		STRUCTURE: Vein contacts foliation parallel at 50 to CA. Gold mineralized fracture appears no more impressive than do numerous others within interval.															
		437.1 to 440.15: Medium grained dacite, 5-7% sm.-lg. qtz eyes. Banded due to bleaching, narrow zones of remobilized qtz rich material above 438m.															
		ALTERATION: 3-4% fine disseminated Py.															
		STRUCTURE: Foliation 50-55 to CA. Upper contact and lower contact 58 to CA, both v. sharp.															
		440.15 to 474.2: End of hole. Fine-med. grained qtz eye dacite tuffs. Moderately bleached, rarely banded															

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		with narrow seams of Py foliation parallel. 443.95 and 448.1, 10cm wide subconcordant qtz veins.												
		ALTERATION: 3-4% fine disseminated Py on average, locally to 5-7% disseminated to banded over .3-.5m intervals e.g. 464.6 467.7. Mod-strongly bleached and banded from 442.5-445. Top vein 2-3% tourm. 1% Py, lower vein 1% Py. Tourmaline present along some fractures from 436-456.5.												
		STRUCTURE: Foliation 45-55 to CA throughout except at 467, 60 to CA over 1/2m.												

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
62.80	-72.50	356.00
135.98	-69.50	
196.95	-71.00	5.50
257.93	-69.50	5.00
318.90	-67.00	7.00

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9613

FROM	TO	LITHOLOGICAL DESCRIPTION			ASSAYS									
					FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm
		DEPTH	INCLINATION	BEARING										
		379.88	-65.00	10.00										
		437.81	-64.00	12.00										
		474.20	-64.00											

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DIAMOND DRILL LOG

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Collar Eastings: -350.00

Collar Northings: -675.00

Collar Elevation: 10.00

Grid: Rich

Drill contractor, Bradley Bros. Diamond drilling.

Collar Inclination: -65.00

Grid Bearing: 0.00

Final Depth: 334.00 metres

Logged by C.A.Wagg

Logged by: D.M.E.

Date: 10/03/96-13/03/96

Down-hole Survey: Sperry Sun

DDH drilled on claim Lot5, ConI, Richards

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS															
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb				
0	6.7	OVERBURDEN (OB) - Casing. Last 0.3-.5m "H" size core from dacitic bedrock.																
6.7	49.65	INT. FELSIC QTZ-FSP PORPHYRY (Int. Felsic Qtz-fsp Porph.) - fine -med. grained. Dark grey-black, spotted with deep blue qtz eyes 1-6mm and occasionally with 1-2% lath like grey and white altered fsp phenocrysts up to 2mm in length. Medium grey-green in places due to bleaching/ sausseritization of groundmass fsp. Well foliated and generally weakly-mod. banded due to <1cm wide zones of foliation parallel shearing and bleaching along abundant subconcordant fractures. Perhaps, 5% combined qtz and fsp phenocrysts. 50-80% fine-med. dark grey feldspathic groundmass. 15-40% fine mafic silicates biotite > amphibole > Chl. - ALTERATION: 1-3% fine disseminated Py on average. Up to 3-5% over 30cm in a few places. Minor Sph within narrow bleached shear adjacent to 1cm wide concordant qtz veinlet at 10.6m. 1% Sp along fractures, 5-7% vein qtz as 1-2cm wide veinlets, over 50cm at 14.35 Weak pervasive calcite alteration throughout.	10.13	10.70	0.57	20.000	47.000	1710.000	0.200	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
			10.70	11.90	1.20	5.000	24.000	175.000	NIL	1.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			14.10	14.68	0.58	25.000	119.000	2200.000	0.400	2.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			14.68	15.50	0.82	15.000	44.000	480.000	0.200	5.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			32.72	33.10	0.38	10.000	15.000	155.000	NIL	2.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS										
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		<p>STRUCTURE: Foliation 55-60 to CA above 8m. Foliation 50 to CA from 9-12m, 55-65 to CA from 13-21m. 45-55 to CA from 21.5-31.5.</p>											
		<p>18.7 to 19.1: Weakly bleached medium grained qtz eye dacite tuff. Concordant contacts, but likely an inclusion.</p>											
		<p>ALTERATION: 2-3% fine disseminated Py.</p>											
		<p>31.3 to 32.81: Graded bed of qtz eye dacite tuff. Coarser grained with abundant lg. qtz eyes at lower contact.</p>											
		<p>STRUCTURE: Contacts foliation parallel. Top 60 to CA, lower 50 to CA. Foliation 60 to CA at 33.1 50 to CA from 34-36.75.</p>											
		<p>39.0 to 41.1: K-spar present as well as bleaching, adjacent to fractures.</p>											
		<p>ALTERATION: Mod. pervasive k-spar alteration from 39.7-40.2.</p>											
		<p>STRUCTURE: Foliation 60 to CA at 42m.</p>											
		<p>47.75: 5cm wide contorted Crosscutting qtz vein.</p>											

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		ALTERATION: Weakly chloritized contacts, tr 1% Py, 2-3% fine disseminated Py.												
		STRUCTURE: Vein averages 40 to CA, nearly perpendicular to foliation.												
		45.90 to 49.65: Banded due to bleaching, resembles med. grained dacite but with 5-10% sm.-lg. blue qtz eyes.												
49.65	61.0	QID (QID, mg) - Medium grained, med. grey. 2-3% sm.-med. 1-4mm, white qtz eyes. <5% fine mafic silicates. Remainder fine grained feldspathic groundmass.	51.50	52.30	0.80	30.000	26.000	210.000	0.300	2.000	NIL	NIL	NIL	NIL
			53.75	54.15	0.40	190.000	79.000	2600.000	0.500	3.000	NIL	NIL	NIL	NIL
			56.48	56.98	0.50	100.000	15.000	235.000	0.300	NIL	NIL	NIL	NIL	NIL
			56.98	57.33	0.35	925.000	63.000	2300.000	6.000	8.000	NIL	NIL	NIL	NIL
		ALTERATION: 2-3% fine disseminated Py.	57.33	58.71	1.38	35.000	9.000	73.000	NIL	NIL	NIL	NIL	NIL	NIL
			58.71	60.29	1.58	15.000	10.000	26.000	NIL	NIL	NIL	NIL	NIL	NIL
		STRUCTURE: Well foliated, weakly banded due to 1-10cm wide foliation parallel zones of bleaching.	60.29	60.76	0.47	5.000	12.000	37.000	NIL	NIL	NIL	NIL	NIL	NIL
		51.25 to 53.6: Chloritic, mafic dyke material injected along subconcordant to Crosscutting fractures. Broken core common throughout interval. "Discrete" dykes at 51.25-51.50? Crosscutting 52.0-52.25 Crosscutting 53.30- 53.55.												
		ALTERATION: 3-5% fine disseminated Py within dyke material. Intense chloritization of dyke, with epidote and calcite												

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		along fractures. Trace Sp at 54.0 in sheared material adj. to 1cm wide subconcordant qtz stringer.												
		STRUCTURE: Foliation 45-55 to CA. Contacts 25- 30 to CA. 45-50 to CA.												
		COMMENTS: Whole rock analyses impractical due to degree of intermixing of units, intensity of alteration, and calcite fracture fillings. Possibly a zone of Ultramafic-related breccia.												
		58.7: 5-7cm wide qtz vein, subconcordant to Crosscutting non-parallel contacts. Trace Py.												
		ALTERATION: 36.7-37.45, 1% Sph along subconcordant fractures.												
		60.5 to 61.0: Thermally metamorphosed, weakly contaminated. qtz eye dacite.												
		ALTERATION: Very weak pervasive k-spar +/- silica alteration Strongly contaminated for 5cm above dyke contact.												
		STRUCTURE: Weakly sheared parallel to foliation and contact 50-55 to CA.												
61.0	124.3	DIABASE DYKE (Diabase Dyke) - fine-med. grained. Dark												

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		grey to black. Typical diabase composition and texture. Subophitic 60-70% pale grey plagioclase intergrown with 20-30% fine pyroxenes partly altered to, or with minor amphibole, and trace, locally to 1-2%, serpentinized phenocrysts.												
		ALTERATION: 1-2% fine disseminated Py, tr 1% magnetite, very weakly magnetic throughout. Minor Ep-Calc-Chl +/- Py sealing some fractures.												
		STRUCTURE: No foliation. Fractures appear randomly oriented. Top contact subconcordant to Crosscutting irregular averages 60-65 to CA. Both contacts quite noticeably chilled, as is area around inclusion.												
		100.65: Strong pervasive epidote alteration over 15-20cm.												
		ALTERATION: Weak-mod. sausseritization, k-spar replacement of fsp phenocryst and epidote development.												
		122.0 to 122.45: Strongly altered inclusion of dacite. Subconcordant 5cm wide barren qv at 122.35.												
		ALTERATION: 2-3% fine disseminated Py.												
		STRUCTURE: Foliation 60 to CA at top, foliation 40 to CA at bottom parallel to contacts.												

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
124.3	226.3	MED.-CRS. GRAINED QID (QID, mg-cg) -	124.28	124.66	0.38	760.000	74.000	22.000	5.700	48.000	NIL	NIL	NIL	NIL
		similar to interval from 49.65-61.0m, but occasionally	124.66	125.03	0.37	1230.000	138.000	2900.000	39.000	1200.000	NIL	NIL	NIL	NIL
		coarser grained and with 5-7% generally med. sized	125.03	126.00	0.97	1490.000	139.000	4300.000	28.000	2500.000	NIL	NIL	NIL	NIL
		2-4mm, qtz eyes.	126.00	127.01	1.01	1080.000	136.000	1600.000	6.600	342.000	NIL	NIL	NIL	NIL
		.	127.01	127.57	0.56	50.000	33.000	27.000	0.700	10.000	NIL	NIL	NIL	NIL
		ALTERATION: 3-4% fine disseminated to mm wide	131.20	131.51	0.31	1940.000	36.000	165.000	48.000	132.000	NIL	NIL	NIL	NIL
		foliation parallel seams of Py. Moderately bleached	131.51	132.80	1.29	125.000	25.000	61.000	5.800	18.000	NIL	NIL	NIL	NIL
		and sericitized throughout.	132.80	133.13	0.33	270.000	21.000	372.000	27.200	138.000	NIL	NIL	NIL	NIL
		.	133.58	133.88	0.30	145.000	10.000	192.000	10.800	20.000	NIL	NIL	NIL	NIL
		STRUCTURE: Lower contact very abrupt, planar conforms	137.30	138.09	0.79	145.000	43.000	342.000	45.500	290.000	NIL	NIL	NIL	NIL
		to foliation at 50 to CA. Well foliated at 50-55, rarely	138.09	138.75	0.66	110.000	15.000	580.000	12.600	70.000	NIL	NIL	NIL	NIL
		to 45 or 60 degrees.	138.75	139.78	1.03	110.000	7.000	74.000	13.800	96.000	NIL	NIL	NIL	NIL
		.	140.43	141.01	0.58	390.000	29.000	1400.000	100.000	480.000	NIL	NIL	NIL	NIL
		124.3 to 125.05+: Light-med. green-brown. Fine grained	141.01	141.78	0.77	30.000	27.000	80.000	6.700	17.000	NIL	NIL	NIL	NIL
		silicified, with considerable sericite. Tourmaline with	141.78	142.18	0.40	20.000	23.000	72.000	3.800	17.000	NIL	NIL	NIL	NIL
		qtz +/- calcite at 127.50 Crosscutting < 5mm	142.18	143.02	0.84	85.000	24.000	120.000	10.000	29.000	NIL	NIL	NIL	NIL
		wide fractures, and in Crosscutting 1cm wide qtz veinlets at 133.7	143.02	143.46	0.44	90.000	10.000	295.000	5.700	15.000	NIL	NIL	NIL	NIL
		and 138.3.	143.46	144.60	1.14	90.000	30.000	115.000	7.600	23.000	NIL	NIL	NIL	NIL
		.	144.60	145.00	0.40	215.000	12.000	76.000	4.500	14.000	NIL	NIL	NIL	NIL
		ALTERATION: 8-10% fine Py, tourmaline and Py present	145.00	145.54	0.54	100.000	22.000	110.000	6.400	26.000	NIL	NIL	NIL	NIL
		within 2-10mm wide foliation parallel qtz stringer at 124.35.	145.54	146.57	1.03	120.000	27.000	90.000	8.200	17.000	NIL	NIL	NIL	NIL
		15% Py primarily banded over 20cm at 131.4. 138.3, tr	147.90	148.26	0.36	100.000	18.000	37.000	1.700	17.000	NIL	NIL	NIL	NIL
		Sp, minor muscovite within qv. Commonly 4-5% fine Py	148.77	149.27	0.50	15.000	21.000	134.000	1.500	8.000	NIL	NIL	NIL	NIL
		below 136.0 disseminated and as wispy streaks parallel	150.90	151.20	0.30	30.000	33.000	99.000	14.800	34.000	NIL	NIL	NIL	NIL
		to foliation.	151.20	151.70	0.50	25.000	36.000	72.000	9.000	42.000	NIL	NIL	NIL	NIL
		.	151.70	152.26	0.56	30.000	26.000	97.000	10.500	46.000	NIL	NIL	NIL	NIL
		STRUCTURE: Foliation 50-60 to CA from 135-144.75m.	152.26	153.17	0.91	80.000	12.000	75.000	27.000	40.000	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		Foliation 65-70 to CA from 145-150m, variable below 150m.	153.17	154.20	1.03	50.000	10.000	75.000	8.000	22.000	NIL	NIL	NIL	NIL
		.	154.20	154.83	0.63	50.000	7.000	63.000	8.800	28.000	NIL	NIL	NIL	NIL
		143 to 146.5: Somewhat fragmental in appearance, particularly below 144m. Banded on cm scale qtz-fsp rich vs. micaceous laminae.	154.83	155.51	0.68	80.000	6.000	160.000	11.200	30.000	NIL	NIL	NIL	NIL
		.	155.51	156.22	0.71	115.000	8.000	95.000	15.600	26.000	NIL	NIL	NIL	NIL
		146.5 to 149.4: Medium grained unbanded interval with only 2-3% sm.-med. size qtz eyes. Includes a contorted Crosscutting qtz-Calcite vein about 10cm wide, over 30cm core length at 148.05.	156.22	157.02	0.80	310.000	12.000	300.000	38.000	172.000	NIL	NIL	NIL	NIL
		.	157.02	157.53	0.51	640.000	18.000	2900.000	60.000	880.000	NIL	NIL	NIL	NIL
		ALTERATION: Trace disseminated Sph present occasionally below 141.5. Tourmaline "common" within qtz stringers and as <1mm wide fillings along subconcordant to Crosscutting fractures. Also possibly disseminated within sections with fragmental appearance above 157.25.	157.53	158.98	1.45	450.000	16.000	1350.000	46.500	840.000	NIL	NIL	NIL	NIL
		.	158.98	160.30	1.32	285.000	13.000	1300.000	25.000	205.000	NIL	NIL	NIL	NIL
		STRUCTURE: 45 to CA at 151, 70 to CA at 151.5, 55 to CA at 154, 50 to CA at 155.5, and 55 to CA at 157m. Contacts foliation parallel, abrupt.	160.30	161.23	0.93	170.000	12.000	700.000	11.400	134.000	NIL	NIL	NIL	NIL
		.	161.23	161.94	0.71	100.000	17.000	1400.000	7.000	85.000	NIL	NIL	NIL	NIL
		COMMENTS: Some distinct lithic fragments are identifiable, but banding may be due in part to metamorphism/deformation causing a gneissic segregation or minor partial melting. Tourmaline constitutes up to 1% of rock on average from 141.5-157.25.	161.94	162.42	0.48	125.000	17.000	890.000	9.400	163.000	NIL	NIL	NIL	NIL
		.	162.42	163.05	0.63	190.000	15.000	310.000	9.000	95.000	NIL	NIL	NIL	NIL
		.	163.05	163.55	0.50	280.000	30.000	2200.000	13.000	130.000	NIL	NIL	NIL	NIL
		.	163.55	163.97	0.42	340.000	32.000	2200.000	15.600	220.000	NIL	NIL	NIL	NIL
		.	163.97	164.35	0.38	345.000	28.000	2400.000	12.000	215.000	NIL	NIL	NIL	NIL
		.	164.35	164.65	0.30	3110.000	133.000	1550.000	134.000	1600.000	NIL	NIL	NIL	NIL
		.	164.65	165.45	0.80	485.000	25.000	910.000	14.800	310.000	NIL	NIL	NIL	NIL
		.	165.45	166.03	0.58	365.000	27.000	940.000	12.000	87.000	NIL	NIL	NIL	NIL
		.	166.03	166.50	0.47	745.000	188.000	2000.000	17.000	84.000	NIL	NIL	NIL	NIL
		.	166.50	166.90	0.40	220.000	90.000	5300.000	10.800	64.000	NIL	NIL	NIL	NIL
		.	166.90	167.13	0.23	750.000	95.000	1650.000	11.000	230.000	NIL	NIL	NIL	NIL
		.	167.13	167.68	0.55	7010.000	205.000	8100.000	40.000	164.000	NIL	NIL	NIL	NIL
		.	167.68	168.00	0.32	1080.000	189.000	14700.000	40.000	230.000	NIL	NIL	NIL	NIL
		.	168.00	168.31	0.31	710.000	70.000	6000.000	25.000	143.000	NIL	NIL	NIL	NIL
		.	168.31	168.62	0.31	1270.000	510.000	34800.000	138.000	7000.000	NIL	NIL	NIL	NIL
		.	168.62	168.78	0.16	535.000	60.000	2600.000	23.000	179.000	NIL	NIL	NIL	NIL
		.	168.78	169.20	0.42	465.000	29.000	410.000	12.600	71.000	NIL	NIL	NIL	NIL
		.	169.20	169.70	0.50	660.000	20.000	370.000	11.400	30.000	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
.			169.70	170.43	0.73	620.000	25.000	510.000	15.400	73.000	NIL	NIL	NIL	NIL
149.4 to 159.1:		Coarse qtz eye dacite with abundant dactitic lithic fragments, partially resorbed and flattened	170.43	170.71	0.28	380.000	34.000	3000.000	17.600	100.000	NIL	NIL	NIL	NIL
2:1 to >10:1,		typically < 1cm in present thickness, constitutions 20-30% of rock. 5-10% sm. qtz eyes.	171.51	171.92	0.41	440.000	10.000	430.000	34.000	20.000	NIL	NIL	NIL	NIL
.			171.92	172.10	0.18	740.000	13.000	560.000	60.000	46.000	NIL	NIL	NIL	NIL
.			172.10	172.77	0.67	10.000	5.000	21.000	0.400	NIL	NIL	NIL	NIL	
ALTERATION:		Mod-strongly bleached, sericitized.	172.77	172.89	0.12	15.000	2.000	43.000	6.000	NIL	NIL	NIL	NIL	
5-7% disseminated		Py, most as streaks or very narrow seams. Strongly bleached below 149. Breccia like fracture fillings of Py over 30cm at 155.9.	172.89	173.13	0.24	10.000	8.000	16.000	1.800	NIL	NIL	NIL	NIL	
.			173.13	173.62	0.49	5.000	7.000	39.000	NIL	NIL	NIL	NIL	NIL	
.			173.62	174.18	0.56	5.000	18.000	95.000	2.000	NIL	NIL	NIL	NIL	
.			174.18	174.45	0.27	10.000	4.000	17.000	NIL	NIL	NIL	NIL	NIL	
STRUCTURE:		Weakly-mod. banded with lithic fragments. Minor variation in degree of bleaching. Moderately foliated at 60-75 to CA. Mod. fractured, subconcordant to high angle to foliation commonly with hairline fillings of fine brown-black tourmaline.	174.45	178.90	4.45	5.000	10.000	15.000	0.200	NIL	NIL	NIL	NIL	
.			181.80	182.28	0.48	5.000	9.000	9.000	0.200	NIL	NIL	NIL	NIL	
.			185.55	186.18	0.63	5.000	9.000	5.000	NIL	NIL	NIL	NIL	NIL	
.			189.81	190.45	0.64	5.000	10.000	17.000	NIL	NIL	NIL	NIL	NIL	
.			191.85	192.72	0.87	10.000	12.000	7.000	0.200	NIL	NIL	NIL	NIL	
.			201.35	202.08	0.73	NIL	9.000	11.000	NIL	NIL	NIL	NIL	NIL	
COMMENTS:		Small bomb size fragment 10cm x 2-5cm on core face at 154.15. Muscovite with qtz "pod" 1-2cm wide at 157.6.	202.90	203.45	0.55	20.000	6.000	22.000	NIL	NIL	NIL	NIL	NIL	
.			203.45	204.02	0.57	210.000	19.000	135.000	3.300	32.000	NIL	NIL	NIL	
.			205.87	206.80	0.93	135.000	15.000	60.000	1.300	54.000	NIL	NIL	NIL	
.			206.80	207.50	0.70	95.000	10.000	42.000	0.600	29.000	NIL	NIL	NIL	
159.1 to 163:		Banding, strong flattening of fragments absent. Fragments relatively undeformed and unaltered	207.50	207.95	0.45	130.000	9.000	96.000	1.300	50.000	NIL	NIL	NIL	
30-40% of rock		volume, poorly sorted. 3-4% sm.-lg. qtz eyes.	207.95	208.51	0.56	285.000	14.000	290.000	1.800	168.000	NIL	NIL	NIL	
.			208.51	209.00	0.49	385.000	20.000	560.000	2.900	290.000	NIL	NIL	NIL	
.			209.00	210.05	1.05	710.000	17.000	470.000	1.600	200.000	NIL	NIL	NIL	
.			210.05	210.55	0.50	225.000	68.000	550.000	2.400	290.000	NIL	NIL	NIL	
ALTERATION:		Trace 1% disseminated Sph throughout below 160m with 3-4% disseminated Py. About 1% Sph on average	210.55	211.09	0.54	390.000	56.000	3250.000	3.800	600.000	NIL	NIL	NIL	
.			211.09	211.55	0.46	215.000	74.000	1450.000	4.600	530.000	NIL	NIL	NIL	

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		between 162.3 and 166.4 with about 5% disseminated Py.	211.55	213.21	1.66	130.000	31.000	730.000	2.000	430.000	NIL	NIL	NIL	NIL
		.	213.21	213.47	0.2614	530.000	310.000	7300.000	34.000	8700.000	NIL	NIL	NIL	NIL
		163 to 208.75: similar to interval from 149.4-159.1, but 3-4% sm. qtz eyes. 164.35, 12cm wide qtz vein	213.47	214.04	0.57	765.000	52.000	1400.000	3.800	1000.000	NIL	NIL	NIL	NIL
		strongly foliated, banded. 166.4-170.8, well mineralized interval with Sp. Fragments commonly barely discernible	214.04	214.46	0.42	490.000	21.000	680.000	1.200	355.000	NIL	NIL	NIL	NIL
		due to bleaching. Includes 10cm thick bed of fine dacite tuff at 168.2. Transition at 170.8 to small, well flattened banded	214.46	214.73	0.27	2540.000	395.000	34700.000	23.200	5200.000	NIL	NIL	NIL	NIL
		fragments <5mm thick Qtz eyes rare to absent above	214.73	215.58	0.85	100.000	41.000	750.000	2.000	640.000	NIL	NIL	NIL	NIL
		192m. Below 192, bands/fragments commonly 1-2cm	215.58	216.46	0.88	295.000	24.000	1700.000	0.600	114.000	NIL	NIL	NIL	NIL
		fine disseminated Py.	216.46	217.91	1.45	255.000	92.000	1000.000	3.000	40.000	NIL	NIL	NIL	NIL
		.	217.91	219.21	1.30	245.000	58.000	830.000	1.700	122.000	NIL	NIL	NIL	NIL
		ALTERATION: Vein 1-2% fine Py, <1% Sp <1% Gn, minor calcite, tr muscovite. 166.4-170.8, 2-3% Sp on average up	219.21	219.80	0.59	205.000	25.000	335.000	1.500	212.000	NIL	NIL	NIL	NIL
		to 7-8% over 10-30cm, as small disseminated clusters with Py	219.80	220.12	0.32	1700.000	580.000	10000.000	28.000	5000.000	NIL	NIL	NIL	NIL
		and along discontinuous gash-like fractures parallel to	220.12	220.75	0.63	275.000	93.000	2900.000	10.000	1250.000	NIL	NIL	NIL	NIL
		foliation. Below 170.8, mod. bleached strongly sericitized, tr 1% fine Py.	220.75	221.85	1.10	120.000	24.000	168.000	0.800	105.000	NIL	NIL	NIL	NIL
		.	221.85	222.78	0.93	790.000	84.000	3500.000	3.000	133.000	NIL	NIL	NIL	NIL
		198.3 to 189.7: Concordant, fine grained gabbroic dyke, strongly calcite altered chloritized, moderately foliated.	222.78	223.49	0.71	2130.000	630.000	10000.000	10.600	205.000	NIL	NIL	NIL	NIL
		Similar to 10cm wide dykes, concordant, at 196.35, 197.0.	223.49	223.92	0.43	3520.000	620.000	10000.000	50.000	830.000	NIL	NIL	NIL	NIL
		.	223.92	224.30	0.38	630.000	100.000	1750.000	6.000	113.000	NIL	NIL	NIL	NIL
		ALTERATION: tr disseminated Asp present above 173.5 with thin bands of coarse disseminated Asp at 172.8,	224.30	224.77	0.47	390.000	150.000	4500.000	4.400	85.000	NIL	NIL	NIL	NIL
		173 and 7-8% Asp over 10cm above a cm wide	224.77	225.43	0.66	165.000	76.000	510.000	4.000	72.000	NIL	NIL	NIL	NIL
		sericite rich fault zone.	225.43	225.78	0.35	230.000	50.000	225.000	2.400	93.000	NIL	NIL	NIL	NIL
		.												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		<p>STRUCTURE: Foliation dyke contacts 55-60 to CA. Foliation variable from 55-70 to CA.</p> <p>208.75 to 228.5: Med.-coarse qtz eye dacite tuff. 2-4% sm.-lg. qtz eyes, no banding. Probably in part fragmental below 218.2, definitely fragmental below 220.75. Well mineralized with Py, minor Sp below, 222.8 mostly as seams or along fractures.</p> <p>ALTERATION: Sp, Py +/- tr Gn, Cp seams along foliation parallel fractures at: 210.4, 210.7 both 4cm wide, 2-3cm wide at 214.5. 5% Sp 2-3% Py 1% Gn, tr Cp Asp over 30-35cm-219.65-.95. 222.8-226.3, 5-7% disseminated to banded Py < 1% Sp unaltered, tr Py Mt.</p> <p>STRUCTURE: Foliation 55-70 throughout remainder of hole, generally between 60-65 to CA.</p>												
226.3	228.5	<p>DIABASE DYKE (Diabase Dyke) - similar to interval from 61.0-124.3.</p> <p>STRUCTURE: Irregular top contact av. 15-25 to CA. Lower contact and foliation 65 to CA.</p>	225.78	226.43	0.65	475.000	141.000	840.000	3.200	210.000	NIL	NIL	NIL	NIL
228.5	236.35	<p>COARSE QID (QID, cg) - similar to interval from</p>	228.46	228.99	0.53	645.000	88.000	56.000	5.400	21.000	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		208.75-218.2, banded in places likely fragmental in part.	228.99	229.60	0.61	355.000	92.000	117.000	2.400	10.000	NIL	NIL	NIL	NIL
		ALTERNATION: 3-5% disseminated to banded Py locally to 10% over 30cm e.g. 235-235.3, excluding narrow dykes.	229.60	230.40	0.80	350.000	80.000	43.000	2.200	8.000	NIL	NIL	NIL	NIL
		231.05 to 232, 235.9 to 235.25: Diabase dykes with hornfelsed dacite for 10-15cm at either contact.	230.40	231.02	0.62	470.000	138.000	2000.000	2.800	10.000	NIL	NIL	NIL	NIL
		233.40 to 234.30	232.02	233.40	1.38	380.000	152.000	4600.000	5.200	150.000	NIL	NIL	NIL	NIL
		234.30 to 234.93	233.40	234.30	0.90	385.000	133.000	5100.000	4.000	46.000	NIL	NIL	NIL	NIL
		234.93 to 235.23	234.30	234.93	0.63	235.000	49.000	2000.000	2.800	143.000	NIL	NIL	NIL	NIL
		235.23 to 235.75	234.93	235.23	0.30	565.000	220.000	10000.000	5.000	530.000	NIL	NIL	NIL	NIL
		235.75 to 236.02	235.23	235.75	0.52	630.000	88.000	5200.000	4.000	230.000	NIL	NIL	NIL	NIL
		236.02 to 236.35	235.75	236.02	0.27	445.000	115.000	2800.000	2.400	104.000	NIL	NIL	NIL	NIL
		STRUCTURE: No foliation Crosscutting irregular top contacts concordant to subconcordant lower contacts, sharp. Foliation at 236.35 65 to CA.	236.02	236.35	0.33	345.000	68.000	510.000	1.400	49.000	NIL	NIL	NIL	NIL
236.0	237.3	QID CRYSTAL (QID, fg-mg) - fine-med. grained, 1-2% sm. qtz eyes.	236.35	237.00	0.65	490.000	37.000	5480.000	1.000	81.000	NIL	NIL	NIL	NIL
		ALTERNATION: 2-3% fine garnet on average. 3-5% fine disseminated to fracture controlled banded Py. Trace to 4% Sph with Py along <5mm fractures. Fractures calcite filled, tr Chl. Wallrock bleached for 4cm <5mm, replaced by fine Py, Po.												
		STRUCTURE: Foliation 70 to CA.												
237.3	238.12	DIABASE DYKE (Diabase Dyke) - medium grey-green	237.00	237.52	0.52	460.000	85.000	2400.000	1.000	29.000	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		weakly bleached for <1cm at contacts and along a few randomly oriented fractures. Includes wedge of qtz at lower contact. Similar to interval from 237.3. Similar to interval from 226.3-228.5.												
		ALTERATION: <1% Py overall, with 1-2% overall fine Py.												
		STRUCTURE: Top contact over 45cm from 237.1-237.55, almost perpendicular to foliation 10-15 to CA. Lower contact subconcordant, approx. 45 to CA, foliation 70.												
		238.12: QID CRYSTAL (QID, fg-mg) - 238.4-238.56, irregular walled somewhat brecciated diabase dyke.												
		ALTERATION: Well mineralized above 244.4:7-8% disseminated to banded Py along foliation parallel to Crosscutting fractures. Up to 1% Sph on average but locally to 2-3% over 30cm intervals. Restricted to patches, pyrite rich fractures.												
		STRUCTURE: Both contacts Crosscutting. Foliation contacts at 60-65 to CA.												
		240.48 to 241.73+: Diabase dyke, fine grained, no alteration or mineralization with foliation parallel contacts. Entire interval brecciated to some degree. Anastomosing shear?, resulting in a somewhat fragmental appearance. mm thick micaceous shear planes subparallel to foliation												

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9614

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		separate <.5-1cm thick lozenges/lenses of unsheared dacite.												
		ALTERATION: Below 244.4, 2-4% disseminated to 4mm fracture controlled pyrite seams. Trace Sph locally along fractures, above 246.75. 2-3% fine grained garnet present throughout inside from the dykes, from 236.5-263.5, tr 1% Gnt above 265m. Trace Cp at 255.0, within interconnected fracture system, Py >> Sp, fractures to .5cm wide. From 260-263.25, approx. 1% Sp, mostly from pyrite rich fractures, some crosscutting. Some 1-2mm, wide rarely to 2cm with, tr Cp. Trace 1% Sp above 264.1. Below 264.1, 3-4% fine disseminated wide fracture controlled Py seams.												
		STRUCTURE: Foliation 50-60 to CA from 236-237. Fractures concordant.												
		272.5 to 273.85: Shattered to brecciated dacite. Similar in appearance to previous subinterval but fractured rather than sheared, 2cm wide Crosscutting fault zone at 273m. Below 273.4, core broken, parallel to CA, along a kink in foliation.												
		ALTERATION: Groundmass fsp strongly altered to clays around fault.												
		STRUCTURE: Foliation 65-70 to CA at 272.4, 40 to CA at												

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9614

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS										
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		273.1, 60-65 to CA at 273.75. Foliation 55-60 to CA at 274.5, progressing to 70 to CA, from 276-281.5.											
		273.85 to 282.35: Below broken zone med. grained crystal tuff with 2-3% sm.-med. size qtz eyes. Very weakly banded.											
		ALTERATION: 1-3% fine disseminated Py. Very weakly bleached rare sericite slips along foliation planes.											
		282.35: CA parallel qtz stringer 1cm wide by 25-30cm long.											
		ALTERATION: 2-3% fine Py, similar amount of disseminated muscovite.											
		284.2 to 288.35: Banded due to sericitized zones several. mm to several. cm wide, narrow foliation parallel pyrite seams, <, 1mm wide, and occasional calcite rich subconcordant veinlets.											
		ALTERATION: 1-2% fine garnet present over 1-2m, beginning at 284m. 3-5% disseminated to banded Py.											
		STRUCTURE: Foliation 50-65 to CA.											
		288.35 to 289.0: Broken to shattered, similar to interval from 272.5-273.85, minor foliation parallel fault gouge. Qtz stringers with abundant +10%, muscovite. <5mm wide, CA parallel. Over 60cm at 239.5, and over 10cm											

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS														
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb			
		at 300.2.															
		BELOW 289.0: Similar to interval from 284.2-288.35, but with very little sericite, weakly banded.															
		ALTERATION: Minor Sp, tr Gn along <1cm wide qtz stringers. Wallrock mod-strongly bleached and sericitized, below 302.75.															
		STRUCTURE: Foliation parallel fracture at 300.3m.															
		302.75 to 306.45: Identifiable distinct flow, 5-7% med. sized qtz veins.															
		STRUCTURE: Both contacts foliation parallel.															
		306.45 to 308.74: Fine-med. grained Crystal tuff. 2-3% generally sm. qtz eyes.															
		ALTERATION: 1-3% fine disseminated garnet throughout 3-4% fine disseminated Py.															
		STRUCTURE: Foliation 65-70 to CA. Lower contact offset along a minor fracture.															
		308.74 to 334.0: End of hole, med.-coarse. grained dacite qtz eye Crystal tuff. Banded, due to 1-5mm wide miaceous shear planes, and bleaching over cm-10cm															

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS							
						Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		<p>long intervals. Streaked with narrow-generally <1cm patches of qtz-mafic silicate-garnet rich material. Occasional lithic fragments present below about 329m, some to 2 x 4cm resembling fsp megacrysts. Groundmass often pinkish hued due to abundant fine garnet.</p> <p>ALTERATION: Strongly bleached in places. Moderately sericitized. Trace to 2-3% fine garnet present throughout. Banded fracture-controlled sulphides present above 311m. 308.74-311.0: 5-7% Py < 1% Sp, both disseminated to banded. Trace Sph present above 317.2. Below 311.0, 3-4% fine disseminated Py, weak sericite common fine-very fine garnet up to 5% in places.</p> <p>STRUCTURE: Foliation variable from 60-75 to CA above 316. Foliation below 316.0m 65-75 to CA, averaging 70. Foliation at 334m, 75-80 to CA.</p>											

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
53.66	-64.00	1.00
114.63	-63.00	5.00

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION			ASSAYS											
					FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		DEPTH	INCLINATION	BEARING												
		175.61	-60.00	3.00												
		236.35	-55.50	5.00												
		334.00	-53.50	7.00												

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DIAMOND DRILL LOG

PROPERTY: Richardson
 HOLE No.: NR9615
 Collar Eastings: -1600.00
 Collar Northings: -475.00
 Collar Elevation: 0.00
 Grid: Rich

Collar Inclination: -55.00
 Grid Bearing: 0.00
 Final Depth: 191.11 metres
 DDH drilled on claim Lot6,ConI, Richardson Twp.Drill contractor, Ultra Mobile Diam

Logged by: C.A. Wagg
 Date: 12/03/96-15/03/96
 Down-hole Survey: Sperry Sun

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS												
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb	
0	41.55	OVERBURDEN (OB) - Casing.													
41.55	44.8	<p>QID (QID, mg) - medium grained, white, due in part to bleaching and weathering. 5-10% 1-4mm qtz eyes. 70-80% groundmass composed primarily of < 1mm, albitized? white fsp crystals. and qtz. 2-3% fine amph, < Chl. Well foliated, moderately fractured. Core recovery 25-30%.</p> <p>ALTERATION: 3-4% fine Py and Asp, tr black tourmaline disseminated throughout interval. Intensely bleached but no significant sericite; or calcite, except along late fractures. Apparently deeply weathered with feldspar altering to clay minerals.</p> <p>STRUCTURE: Foliation approx. 55 to CA.</p> <p>COMMENTS: Very soft, crumbly in places and easily scratched with a fingernail.</p> <p>44.5 to 44.8: Shattered to brecciated, possibly sheared as well. Chloritic material resealing fractures, and occurring as lenses to 1 x 3mm.</p>	44.25	44.80	0.55	25.000	45.000	87.000	NIL	NIL	NIL	NIL	NIL	NIL	

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DIAMOND DRILL LOG

PROPERTY: Richardson
 HOLE No.: NR9615

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS								
						Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		ALTERATION: 10-15% Chlorite, 7-8% sulphides. Py < Asp. Asp rarely to 2 x 4mm crystals along fractures. STRUCTURE: Contact foliation parallel at 55-60 to CA.												
44.8	66.55	FINE MAFIC VOLCANICS (Maf. Vol. fg) - fine grained, medium green. Top 3m, 25% core recovery. Essentially chlorite with minor, 5%?, sericite at top of interval. Transitional at around 47.85 to subequal chlorite-sericite, with minor epidote, tr sausserite.	44.80	45.18	0.38	220.000	405.000	117.000	0.200	NIL	NIL	NIL	NIL	NIL
			45.18	47.90	2.72	65.000	188.000	108.000	NIL	NIL	NIL	NIL	NIL	NIL
			54.48	55.78	1.30	40.000	18.000	145.000	1.600	58.000	NIL	NIL	NIL	NIL
			63.68	63.98	0.30	335.000	1350.000	56.000	0.300	NIL	NIL	NIL	NIL	NIL
			65.74	66.54	0.80	45.000	109.000	62.000	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: 2-3% fine disseminated Py. Intense chloritization some sericite. STRUCTURE: Foliation variable from 45-55 to CA at 45m to 65 to CA at 46.55. COMMENTS: S2 fabric developed running almost parallel to CA. Broken and ground core common above 52.5m. Below 53.30: Very fine grained serpentine minerals constitute the bulk, 75-80%+, of the rock. Unusual texture of small round spots, epidote, sausserite, resembling varioles in several places between 52.5 and 56.5m. ALTERATION: Trace 1% Py. Strong serpentinization +/-												

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9615

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS										
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		chlorite.											
		STRUCTURE: Foliation weak, overprinted to large extent by the growth of alteration products. Foliation 45-70 to CA.											
		COMMENTS: Altered subhedral plagioclase? considerably harder than chloritic, and serpentine rich groundmass.											
		Below 54.0: Intergrown fibrous serpentine occurs as fine needles, occasionally as radiating clusters. Presumably an altered komatite. Probable contact at 63.90, below which rock resembles an altered, fine grained, low fsp gabbro, similar to the interval from 47.85-53.3, but with some <10%? serpentine. 45cm of mud and sand, no core, at 58.0m. Brief intervals of tuff breccia, dacite porphyry with several varieties mafic lithic fragments, up to several cm in diameter, over 20-30cm at 62.2, 62.5, 66.05.											
		ALTERATION: Moderately to strongly fractured with Chl-Ep alteration +/- Mt., and calcite stringers to 1cm wide often resealing fractures. Ch-Ep-Mt-Py over 20cm core length. 2-3% fine disseminated Py.											
		STRUCTURE: Contact orientation obscured by alteration and minor movement. Foliation at 62.25, 65-70 to CA. Contacts broken, often offset. Lower contact at 62.5 at 60 to CA, crosscutting foliation 65 to CA.											

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9615

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS								
						Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		COMMENTS: 57.60-58.5, core broken to ground.												
66.55	88.75	COARSE DACITE PORPHYRY (Crs. Dacite Porph.) - coarse grained, white-pale grey, with abundant white fsp phenocrysts. Appears likely to be intrusive. 7-10% med.-lg. qtz eyes up to 4-5mm in diameter. 60-70% subhedral white, albitized?, fsp phenocrysts up to 5-7mm in diameter. <20% fine matrix grey-white depending on the degree of bleaching. 5% fine mafic silicates, primarily chlorite.	66.54	67.50	0.96	50.000	151.000	33.000	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: 3-4% fine disseminated Py. 77-81, chlorite sulphide and brown, dolomitic?, carbonate resealing fractures. 4-5 % fine Py. Bleaching mod-intense, due in part in places to weathering of fsp to clay minerals particularly from 81.75-88.75.	67.50	68.72	1.22	50.000	109.000	30.000	NIL	NIL	NIL	NIL	NIL	NIL
		STRUCTURE: Strongly fractured to brecciated particularly from 77-81m. Well foliated 45-60 to CA above 68m. 60-70 to CA below 75m.	68.72	69.77	1.05	45.000	85.000	42.000	NIL	NIL	NIL	NIL	NIL	NIL
		COMMENTS: Core commonly broken from 66.45-69.0.	72.24	73.04	0.80	55.000	42.000	70.000	NIL	NIL	NIL	NIL	NIL	NIL
		72.25 to 73.30: 2-3cm wide qtz vein at very low angle to CA.	78.33	79.05	0.72	45.000	121.000	35.000	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: Trace 1% Py.	79.05	79.77	0.72	35.000	68.000	39.000	NIL	1.000	NIL	NIL	NIL	NIL
			81.38	81.98	0.60	65.000	160.000	92.000	NIL	NIL	NIL	NIL	NIL	NIL
			81.98	82.63	0.65	75.000	200.000	33.000	NIL	NIL	NIL	NIL	NIL	NIL
			82.63	82.98	0.35	75.000	145.000	33.000	NIL	1.000	NIL	NIL	NIL	NIL
			82.98	83.50	0.52	210.000	116.000	33.000	0.200	NIL	NIL	NIL	NIL	NIL
			84.45	85.05	0.60	60.000	50.000	31.000	NIL	NIL	NIL	NIL	NIL	NIL
			85.05	85.83	0.78	85.000	130.000	31.000	NIL	NIL	NIL	NIL	NIL	NIL
			87.47	88.00	0.53	40.000	45.000	36.000	NIL	2.000	NIL	NIL	NIL	NIL
			88.00	88.43	0.43	60.000	57.000	43.000	0.200	NIL	NIL	NIL	NIL	NIL

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9615

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		STRUCTURE: Foliation 50 to CA at 73m.												
		81.75 to 88.75: Soft, intensely bleached, rotten due to weathering, anoxic hydration. Below 82m core friable, plasticine-like due to white clay content. Approximately 2m of core ground 0% recovery from 82.5-84.5, also from 86.0-87.5.												
		ALTERATION: 4-5% fine disseminated Py and Asp. Py > Asp. 7-10% Py and Asp below 82.5, locally to 10-12%.												
		STRUCTURE: Foliation 60-70 to CA from 75-82.5m. Below 82.5 foliation only apparent at 86.0, and 87.5m at 70 to CA.												
		COMMENTS: Likely a fault zone, but no shearing or brecciation is evident within core. No calcite present.												
88.75	98.46	FINE MAFIC VOLCANICS (Maf. Vol. fg) - fine grained. Medium-dark green. Well foliated. Consists primarily, 60-70%, of fine chlorite, some talc? and very minor qtz, all very fine grained.	88.43	90.96	2.53	590.000	438.000	99.000	0.900	NIL	NIL	NIL	NIL	NIL
			90.96	91.96	1.00	260.000	272.000	76.000	0.500	23.000	NIL	NIL	NIL	NIL
			96.40	98.11	1.71	240.000	520.000	126.000	0.600	NIL	NIL	NIL	NIL	NIL
		ALTERATION; Strong-intense chloritization. 5-7% fine-med. grained Py above 92m, and below 98m. Intervening rock 1-2% Py, most from occasional small lenses, 1-2cm x .5cm, of Py-"coarse" Chl-and minor qtz, foliation parallel.												

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		STRUCTURE: Foliation 70-80 to CA from 88.75-97m. Foliation 65 to CA at 98m. Upper contact appears concordant. Lower contact broken, may be crosscutting.												
		90.96 to 91.16: Short interval of fine qtz eye dacite tuff altered to clay rich mush.												
		ALTERATION: 10-15% fine Py. Strongly bleached, weakly-moderately sericitized.												
98.46	102.37	FINE QID (QID fg) - fine grained. Creamy white. Well foliated, with disseminated to thinly banded Py along foliation parallel and rare subconcordant fractures. < 1% med.-lg. qtz eyes.	98.11	98.54	0.43	1360.000	2600.000	140.000	2.700	NIL	NIL	NIL	NIL	NIL
			98.54	99.40	0.86	125.000	49.000	40.000	0.300	NIL	NIL	NIL	NIL	NIL
			99.40	100.79	1.39	80.000	36.000	23.000	0.200	NIL	NIL	NIL	NIL	NIL
			100.79	102.09	1.30	80.000	34.000	43.000	0.300	NIL	NIL	NIL	NIL	NIL
		ALTERATION: 7-10% Py, most finely disseminated, some banded over about 20cm at 99.1, 100.5 and 102m. Trace fine tourmaline present in places within groundmass.												
		STRUCTURE: Foliation variable 65 at 99m, 50-70 to CA from 99.4-102m. Foliation 55-60 at lower contact.												
102.37	114.45	MED.-CRS. QID (Med.-CRS QID) - medium grained. Creamy white-pale grey, with abundant 10-15% med.-lg. qtz eyes, commonly to 5mm in diameter. Fine white fsp crystals frequently visible within groundmass, and from 111.8-114	102.09	103.28	1.19	110.000	76.000	23.000	0.200	NIL	NIL	NIL	NIL	NIL
			105.40	106.05	0.65	105.000	61.000	18.000	0.400	NIL	NIL	NIL	NIL	NIL
			107.70	108.58	0.88	180.000	128.000	25.000	0.200	NIL	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS																		
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb							
		rock consists of 50-70% > 1mm, occasionally to 3mm, fsp "phenocrysts".																			
		ALTERATION: 1-2% fine disseminated Py. Moderately bleached, strongest at top contact. Trace fine tourmaline in places.																			
		STRUCTURE: Foliation 60-70 to CA above 107.5m. Foliation 70-80 to CA below 107.5.																			
		107.7 to 108.55: Similar to interval from 98.46-102.37. 1-2% small qtz eyes.																			
		ALTERATION: 3-5% disseminated Py locally to 5-7%.																			
		STRUCTURE: Foliation 75 to CA throughout.																			
114.45	171.60	FINE-MED. QID (QID, fg-mg) - fine-med. grained Pale grey. 2-4% generally small qtz eyes. Banded on a cm scale due to narrow << 1mm Chl +/- Ser, and/or, Py along foliation parallel slips and fractures.	111.05	114.90	3.85	70.000	26.000	36.000	0.300	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
			117.95	118.56	0.61	75.000	29.000	355.000	0.500	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
			121.43	122.18	0.75	15.000	23.000	50.000	0.200	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
			122.18	123.53	1.35	5.000	10.000	47.000	0.200	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
			123.53	124.45	0.92	5.000	11.000	45.000	0.200	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
		ALTERATION: Weakly bleached. Weakly-moderately sericitized. 1-2% fine disseminated Py on average.	124.45	125.02	0.57	NIL	3.000	41.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
			125.02	125.41	0.39	25.000	3.000	25.000	0.300	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
			125.41	125.88	0.47	30.000	2.000	36.000	0.400	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
		STRUCTURE: Foliation 70-75 to CA, rarely to 80.	125.88	126.38	0.50	30.000	7.000	42.000	0.600	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
			126.38	127.10	0.72	30.000	5.000	40.000	0.500	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	
		121.00 to 128.00: Fine crystal tuff < 1%, sm.-lg. qtz eyes.	127.10	127.90	0.80	30.000	6.000	45.000	0.600	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9615

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		Banded on cm scale solely due to 1-2mm wide foliation parallel to subconcordant fracture controlled Py seams.	129.50	130.70	1.20	10.000	10.000	140.000	0.400	NIL	NIL	NIL	NIL	NIL
		.	132.05	132.75	0.70	45.000	13.000	68.000	0.700	NIL	NIL	NIL	NIL	NIL
		.	132.75	133.30	0.55	350.000	14.000	80.000	0.700	NIL	NIL	NIL	NIL	NIL
		ALTERATION: Weak-moderate bleaching/sericite. 5-7% narrow bands of disseminated Py.	135.70	136.70	1.00	1770.000	10.000	35.000	1.600	NIL	NIL	NIL	NIL	NIL
		.	136.70	137.65	0.95	20.000	14.000	112.000	0.200	NIL	NIL	NIL	NIL	NIL
		.	137.65	138.42	0.77	40.000	30.000	63.000	0.500	6.000	NIL	NIL	NIL	NIL
		STRUCTURE: Foliation 65-80 to CA. Average 70-75.	138.42	139.01	0.59	60.000	18.000	85.000	0.600	6.000	NIL	NIL	NIL	NIL
		.	139.29	139.92	0.63	850.000	14.000	102.000	0.700	9.000	NIL	NIL	NIL	NIL
		125.2: 3-5cm wide qtz vein.	140.27	140.53	0.26	1360.000	138.000	135.000	2.100	17.000	NIL	NIL	NIL	NIL
		.	140.79	141.42	0.63	70.000	20.000	90.000	0.500	4.000	NIL	NIL	NIL	NIL
		ALTERATION: < 1% Py, trace Cp, and minor calcite.	148.71	148.90	0.19	15.000	23.000	350.000	0.600	11.000	NIL	NIL	NIL	NIL
		.	153.29	153.70	0.41	175.000	26.000	560.000	2.000	26.000	NIL	NIL	NIL	NIL
		STRUCTURE: Ragged or embayed contacts 25-30 to CA.	162.45	162.90	0.45	55.000	45.000	137.000	1.000	7.000	NIL	NIL	NIL	NIL
		.	163.10	163.67	0.57	15.000	75.000	76.000	0.600	6.000	NIL	NIL	NIL	NIL
		128 to 131.5: Similar in colour and qtz eye abundance to previous subinterval. Less bleached, no banded sulphide, and spotted with 15-25% < 1mm pale grey-white fsp phenocrysts. 70% + aphanitic groundmass. Commonly with open crosscutting gash-like fractures, some partially calcite filled.	166.85	167.75	0.90	25.000	55.000	175.000	0.900	58.000	NIL	NIL	NIL	NIL
		.												
		ALTERATION: 1-2% very fine disseminated Py.												
		.												
		STRUCTURE: Foliation 70-75 to CA.												
		.												
		COMMENTS: Fractures presumably filled at one time and dissolved/washed by groundwater and/or during drilling.												
		.												

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS										
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		130.7, 131.6: < 5cm wide crosscutting qtz veins.											
		ALTERATION: Trace Py.											
		STRUCTURE: Both approx. 30 to CA. Foliation 65-70 to CA.											
		131.5 to 132.45: Fine grained, no banding. 1-2% disseminated Py.											
		ALTERATION: 1-2% disseminated Py fracture controlled Py, 5%, banding below 132m, resembling 121-128m.											
		132.45 to 134.35: Similar to interval from 128-131.5, spotted with fine fsp.											
		ALTERATION: Above 133.30, approximately 5% Py, most from fractures similar to those in previous subinterval.											
		STRUCTURE: Foliation 75 to CA.											
		134.5-: Similar to interval from 114.45-121. Weakly banded, < 1% qtz eyes, very rare. Foliation parallel Py +/- calcite seams < 5mm wide. Coarser intervals up to 10-15% < 2mm fsp phenocrysts. e.g. 142.4-152. 4cm wide qtz stringers, crosscutting at 30 to CA at 149.8, 151.3.											
		ALTERATION: 1-2% fine Py below 133.3. 1-3% fine disseminated											

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS										
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		Py. 2-3% fracture controlled seams from 139.29-142.00. Trace 1% Py.											
		STRUCTURE: Foliation 70-80 to CA except for 139-142, where 65 to CA is common.											
		153.55: Subconcordant qtz vein, 20cm wide.											
		ALTERATION: Trace Py < 1% tourmaline.											
		STRUCTURE: Both contacts average 60 to CA.											
		Below 155m: fsp phenocrysts < 1-2mm in size constitute 10-20% of rock.											
		162.6 to 163, 163.15 to 163.57, 166.85 to 167.70: CA parallel qtz stringers < 5mm wide.											
		ALTERATION: Trace 1% Py, tr tourmaline.											
		STRUCTURE: All three < 10 to CA.											
		168.2 to 171: Weakly banded, due to Chl-Ser along foliation parallel shear planes. Strongly banded from 171-171.6.											
		STRUCTURE: Foliation 65-75 throughout interval from 155-191m, End of hole.											

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
171.6	181.0	BANDED FRAGMENTAL (Banded Fragmental) - Medium grey, streaked with narrow, < 1mm, white coloured fsp rich laminae "interstitial" to fragments. 80-90% very fine grained grey dacitic fragments. Many likely broken-shattered during deformation. Strongly flattened. Most < 5mm thick. No qtz eyes, tr mafic silicates. The largest fragments up to 1cm thick occur between 175 and 178m.	171.03	171.65	0.62	10.000	33.000	48.000	0.200	NIL	NIL	NIL	NIL	NIL
			171.65	172.06	0.41	20.000	8.000	16.000	NIL	NIL	NIL	NIL	NIL	NIL
			175.86	176.46	0.60	NIL	6.000	5.000	NIL	NIL	NIL	NIL	NIL	NIL
			177.35	178.03	0.68	NIL	17.000	12.000	NIL	NIL	NIL	NIL	NIL	NIL
			180.13	180.88	0.75	40.000	90.000	218.000	0.700	8.000	NIL	NIL	NIL	NIL
		ALTERATION: Trace 1% very fine Py. Weakly bleached very little sericite.												
		STRUCTURE: Foliation uniformly 75 throughout. Appears graded. Small uniform sized fragments at top, med.-lg. fragments toward bottom.												
		COMMENTS: Whole rock sample at 172m, just to be certain A isn't a shattered chert.												
171.6	187.45	Fragmental QID (QID, frag, mg) - medium grained. Banded grey-white. Contains 4-5% generally small qtz eyes. Upper contact transitional to qtz eye crystal tuff, with some relatively small fragments, some having eyes, some without. Eyes also present within groundmass. Fragments clearly evident within top metre of interval and below 186m.	180.88	181.65	0.77	35.000	14.000	105.000	0.300	13.000	NIL	NIL	NIL	NIL
			181.65	182.35	0.70	50.000	23.000	176.000	0.600	23.000	NIL	NIL	NIL	NIL
			185.50	186.46	0.96	230.000	29.000	130.000	2.000	23.000	NIL	NIL	NIL	NIL
			186.46	187.44	0.98	225.000	13.000	130.000	3.600	60.000	NIL	NIL	NIL	NIL
		ALTERATION: 3-5% fine-medium grained disseminated												

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS									
						Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb	
		Py. Weakly-mod. bleached. Moderate-strong sericitization.													
		STRUCTURE: Banding due in part to flattened fragments, and in part due to concentration of micas along shear planes.													
		COMMENTS: Weak lineation evident below 181m. Crenulation on foliation plane rakes variably from 50-70, to 65-70, which is the most common.													
		176.3: 5mm crosscutting qtz vein with, 5-10% tourmaline, tr Py. Weak kinking of foliation around crosscutting 1cm wide qtz stringers at 182.1 and 185.75, both 30-35 to CA.													
		STRUCTURE: 176.3, vein at 35 to CA.													
187.45	191.11	MED. GRAINED QID (QID, mg) - Medium grained qtz eye crystal tuff, light grey. Contains 3-5% sm.-med. size qtz eyes. Fine fsp crystals visible within groundmass, but almost completely altered to sericite fragments evident from 188.30-188.50.	187.44	187.70	0.26	140.000	35.000	112.000	4.800	146.000	NIL	NIL	NIL	NIL	
			187.70	188.54	0.84	225.000	123.000	90.000	5.400	20.000	NIL	NIL	NIL	NIL	
			188.54	189.29	0.75	460.000	30.000	72.000	1.500	13.000	NIL	NIL	NIL	NIL	
			189.29	189.55	0.26	245.000	28.000	114.000	0.900	47.000	NIL	NIL	NIL	NIL	
			190.69	191.11	0.42	255.000	27.000	83.000	0.600	11.000	NIL	NIL	NIL	NIL	
		ALTERATION: 2-3% fine disseminated Py to 3-4% locally over 15-25cm. Moderately bleached, strongly sericitized.													
		STRUCTURE: Weakly banded due to variations in the degree of bleaching and abundance of sericite.													

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ASSAYS

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		188.55: 10-15cm wide subconcordant qtz calcite vein with sheared sericitized wallrock inclusions.												
		ALTERATION: Trace Py.												
		STRUCTURE: Vein at 60-65 to CA.												
		189.25 to 189.5: 60% subconcordant qtz calcite veins, two, with abundant sericite at contacts.												
		ALTERATION: Trace 1% Py within veins, tr tourmaline.												
		STRUCTURE: Foliation at end of hole, 75 to CA.												

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
58.00	-60.00	0.00
120.00	-56.00	
164.00	-53.00	11.00
191.11	-53.00	

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Collar Eastings: -1200.00

Collar Northings: 675.00

Collar Elevation: 15.00

Grid: Rich

Drill contractor, Ultra Mobile Diamond Drilling.

Collar Inclination: -60.00

Grid Bearing: 0.00

Final Depth: 185.01 metres

Logged by C.A.Wagg

Logged by:

Date: 22/03/96-25/03/96

Down-hole Survey: Acid Test

DDH drilled on claim Lot6,ConII, Richard

			ASSAYS											
FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb
0	34.55	OVERBURDEN (OB) - Boulders above 34.55. Granitic and fine-coarse gabbro, two varieties, one with fsp, one porphyritic with pyx phenocrysts.												
34.55	37.20	MAFIC METAVOLCANICS (Maf. Vol.) - fine grained. Medium-dark green, gabbroic in appearance and composition where least altered. Now 50-60% mafic silicates primarily amphibole. 30-50% calcite and plagioclase. Trace blue qtz, 5-7% opaques. Below 36.75, moderately chloritized, trace magnetism. . ALTERATION: Moderate pervasive calcite alteration, weak chloritization. 1-2% fine disseminated Py. Strongly magnetic, spotted with up to 5% fine magnetite above 36.75. 2-3% fine disseminated Py. . STRUCTURE: Moderately foliated at 65-70 to CA.												
37.20	39.70	INTERMEDIATE CRYSTAL TUFF (QID, fg) - fine grained. Light grey green. Likely andesitic-dacitic in composition. 1-2% < 1mm qtz eyes present above 38m.												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb
		<p>Calcite altered fsp. Weakly banded/bedded parallel to foliation. Intermediate to felsic at top grading to mafic to intermediate at bottom. Mafic silicate content varies from 8-10% at top to 25-30% at bottom, mostly chlorite. Feldspar rich lapilli < 2mm and trace qtz eyes present below 38m.</p> <p>ALTERATION: 2-3% fine disseminated Py.</p> <p>STRUCTURE: Foliation 70 to CA, rarely to 65.</p>												
39.7	41.95	<p>MAFIC METAVOLCANICS (Maf. Vol.) - similar to interval from 34.55-37.20, but slightly coarser grained and very weakly magnetic. Trace 1% fine pyroxene present, no qtz noted.</p> <p>ALTERATION: "Amphibolitized" with weak-mod. pervasive calcite alteration, fsp replacement?, and weak chloritization. 3-5% fine-med. grained disseminated Py.</p> <p>STRUCTURE: Well foliated at 70 to CA. Both contacts gradational over 10-20cm, and appear to be foliation parallel.</p>	41.28	41.76	0.48	30.000	121.000	130.000	0.200	NIL	NIL	NIL	NIL	NIL
41.95	44.0	<p>MIXED MAFIC/FELSIC PYROCLASTICS (Mixed Mafic/Felsic Pyroclastics) - essentially a unit of dacitic qtz eye tuff with several 10-30cm</p>												

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb
		thick intervals of mafic extrusive to pyroclastic material. Tuff 1-5% sm.-med. size qtz eyes, up to 15% fine mafic silicates, banded due to weak bleaching/k-spar alteration along foliation parallel slips and fractures. - ALTERATION: 1-2% fine Py. Strong k-spar/chlorite alteration at tuff-mafic contact at 42.85 coincident around 5-10cm wide qv. - STRUCTURE: Vein contacts fracture controlled. Top 40 to CA, bottom 65-70 to CA, foliation parallel. Contacts foliation parallel. - 42.85 to 43.10 and 43.88 to 44.0: Mafic units fine grained mod-strongly chloritized and calcite altered. Banded in places on mm scale, possibly fragmental. - STRUCTURE: Both units well foliated. Foliation 70 to CA.												
44.1	56.45	DACITIC QTZ EYE CRYSTAL TUFF (QID, fg-mg) - fine-med. grained. Medium grey, pinkish hued due to alteration. 10-20% fine mafic silicates, amphibole, minor chlorite. 5-7% sm.-med. size qtz eyes, locally as low as 3% or as high as 10%. Includes 62cm interval of mafic metavolcanics from 46.89-47.53, resembling those from 42.85-43.1 and 43.88-44.0.	46.92	47.56	0.64	20.000	56.000	125.000	NIL	NIL	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS								
						Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb
		Probably tuffaceous to fragmental. . ALTERATION: Weak chloritization of amphiboles. Mod-strong pervasive k-spar alteration of groundmass and along foliation parallel slips and fractures, only above 52.75 and below 56.15. 3-5% fine disseminated Py, mod-strongly chloritized. . STRUCTURE: Foliation 65-70 to CA. . COMMENTS: Individual flow contacts at 45.75, and 48.75.												
54.65	59.93	MAFIC METAVOLCANICS (Maf. Vol., fg) - fine grained. Spotted to streaked green with white. Strongly foliated, intensely altered, possibly sheared. Consisting of subequal amounts of chlorite and calcite, where most altered. 40-50% amphibole, 10-20% biotite, 20-30% calcite, after fsp?, where least altered. Below 57.75, lineated, with a distinctive texture of rod shaped mafic-felsic segregation's, noted previously in hole 12 and 16. . ALTERATION: Strong Chl-calcite alteration, weak sericite 1-2% fine disseminated Py. . STRUCTURE: Banded alternating chloritic vs. calcite rich layers at top of unit. Foliation contorted and folded	56.85	57.54	0.69	5.000	82.000	84.000	NIL	NIL	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS										
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		for 30cm above a 10cm wide qv at 65-70 to CA. At 57.25 lineation rakes approx. 70 degrees, in foliation plane. Lower contact 50 to CA. Foliation parallel.											
59.93	61.75	FINE DACITE QTZ EYE CRYSTAL TUFF (QID, fg) - similar to interval from 44.1-56.45, but finer grained. Only 3-5% sm.-med. sized qtz eyes and with weak pervasive k-spar alteration of groundmass. . ALTERATION: 1-2% fine disseminated Py. . STRUCTURE: Weakly-moderately foliated at 75-80 to CA.											
61.75	63.86	MAFIC METAVOLCANICS (Maf. Vol.) - similar to interval from 56.45-59.93, but with a weak rod-like texture resulting from lineation development, below 63.2. Strongly banded, alternating chlorite vs. calcite. . ALTERATION: Strong chloritization, moderate calcite alteration. 1-2% fine Py. . STRUCTURE: Top contact 65 to CA, foliation parallel. Foliation 65 to CA at 61.75, 80 to CA at 63.80. Lower contact 80 to CA.											

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb
63.86	70.4	DACITE QTZ EYE CRYSTAL TUFF (QID) - similar to interval from 59.93-61.75, with rare slightly bleached zones 10-40cm in length. Spotted with up to 5-10% < 2mm calcite crystals, after plagioclase phenocrysts? Mafic silicates mostly chlorite. - ALTERATION: 1-3% fine disseminated Py. - STRUCTURE: Foliation 70-75 to CA.												
70.4	72.87	MAFIC METAVOLCANICS (Maf. Vol.) - similar to interval from 61.75-63.86 but less altered, and less banded. Probably extrusive, but likely not pyroclastic. - ALTERATION: 1-2% fine disseminated Py. - STRUCTURE: Foliation 70-75 to CA. Both contacts foliation parallel.												
72.87	108.40	FINE-MED. QTZ EYE DACITE CRYSTAL TUFF (QID, fg-mg) - similar to interval from 63.86-70.4, but banded due to mm wide bleaching +/- k-spar along frequent subconcordant fractures spaced < 1cm apart. 5-10% qtz eyes.	86.00	86.65	0.65	10.000	7.000	46.000	NIL	NIL	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb
		<p>ALTERNATION: 1-3% fine disseminated Py. Moderate fracture-controlled to pervasive k-spar alteration from 76.30-77.9.</p> <p>86.15 to 86.60: Irregular shaped qtz vein.</p> <p>ALTERNATION: 3-5% chlorite, trace Py k-spar.</p> <p>STRUCTURE: Top contact 70-75 to CA, foliation parallel. Lower contact crosscutting at < 15 to CA. Foliation 70-75 to CA, rarely to 80 at 99.5-100.75m.</p>												
108.4	126.50	<p>MAFIC METAVOLCANICS (Maf. Vol.) - similar to interval from 70.4-72.87. Banded, primarily due to common, 3-5% calcite stringers along foliation parallel and less common subconcordant to crosscutting fractures. Include intervals of dacite from 116.1-116.35, 121.10-123.85, and 125.25-125.70, all with sharp foliation parallel contacts, resembling interval from 72.87-108.4.</p> <p>ALTERNATION: Trace to very weak magnetism. Mod-strong pervasive Chl-calcite alteration. 1-3% fine disseminated calcite +/- qtz stringers contain only trace Py. 1-3% fine disseminated Py overall. Calciterestricted to fractures.</p> <p>STRUCTURE: Well foliated at 65-80 to CA, averaging</p>	112.70	113.42	0.72	5.000	97.000	90.000	NIL	NIL	NIL	NIL	NIL	NIL
			113.42	114.11	0.69	25.000	69.000	70.000	NIL	NIL	NIL	NIL	NIL	NIL
			114.11	114.93	0.82	NIL	68.000	77.000	NIL	NIL	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb
		70-75. Foliation 116.25, 70-75 to CA, at 122 70 to CA, at 125.5, 80 to CA.												
126.5	154.50	FINE-MED. QTZ EYE DACITE TUFF (QID, fg-mg) - similar to interval from 72.87-108.40. Weakly banded due to minor bleaching along closely spaced subconcordant fractures. Banding ends about 145m.	141.25	141.60	0.35	60.000	6.000	47.000	NIL	2.000	NIL	NIL	NIL	NIL
			141.60	142.34	0.74	40.000	6.000	27.000	NIL	NIL	NIL	NIL	NIL	NIL
			146.08	146.81	0.73	1810.000	41.000	1000.000	0.400	3.000	NIL	NIL	NIL	NIL
		ALTERATION: 1-3% fine disseminated Py. Weak Chl-sericite alteration. Calcite restricted to fractures.												
		STRUCTURE: Foliation 65-70 to CA. Foliation 80-85 at 141-142, 70-75 above 154, and 85 to CA at 154.40m.												
		141.60 to 142.30: Barren qtz vein.												
		ALTERATION: Minor bleaching of wallrock over <5cm.												
		STRUCTURE: Top contact approx. 30 to CA. Lower contact broken, probably about 30 to CA.												
154.5	156.58	MAFIC-INTERMEDIATE DYKE (Mafic-Intermediate Dyke) - fine grained, medium green. Weakly foliated near both contacts. Subequal fine fsp and mafic silicates, largely chloritized. Possibly andesitic in bulk chemistry, based largely on colour. Medium grained from 154.20-154.45 resembles qtz gabbro. Apparently a second dyke of generally												

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FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS								
						Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb
		similar composition.												
		ALTERATION: Moderate chloritization and pervasive calcite alteration. 2-3% fine disseminated Py. 2cm wide band of disseminated Py, approximately 50% Py, at lower contact.												
		STRUCTURE: Both contacts foliation parallel. Top 70-75 to CA, bottom 75-80 to CA.												
156.58	157.53	FINE QTZ EYE DACITE CRYSTAL TUFF (QID, fg) - resembles interval from 59.93-61.75.	156.50	157.22	0.72	115.000	87.000	130.000	0.500	6.000	NIL	NIL	NIL	NIL
		ALTERATION: 2-3% fine disseminated Py, to 3-4% over 30-50cm where rare foliation parallel fracture-controlled seams occur.												
157.53	173.88	MAFIC METAVOLCANICS (Maf. Vol.) - similar to interval from 34.55-37.20. Spotted to weakly banded with calcite. Gabbroic in appearance, where coarsest/least altered, with amphibole, after pyroxene?, medium grained compared with fine grained groundmass.	160.40	160.96	0.56	20.000	91.000	97.000	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: Mod.-strong pervasive Chl-calcite alteration. Moderate-strongly magnetic from 162.2-163.85. 3-5% fine disseminated magnetite.												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS										
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb
		<p>STRUCTURE: Top contact 80-85 to CA. Moderately lineated throughout, raking < 10 in plane of foliation.</p> <p>160.50 to 160.90: 25% foliation parallel, qtz calcite veinlets.</p> <p>ALTERATION: Trace Py, fine masses of chlorite within veinlets and at contacts.</p> <p>STRUCTURE: Foliation 70 to CA. Foliation 65-70 to CA above 172.5.</p>											
173.88	176.44	<p>DACITIC QTZ EYE TUFF (QID, fg-mg) - fine-med. grained. Light-med. grey. Dacitic overall, no qtz eyes and 15-20% fine mafic silicates above 174.50. 5-7% sm.-med. qtz eyes on average from 174.5-176.44. Fractured; closely-spaced, subconcordant, with minor k-spar and bleaching giving a banded appearance.</p> <p>ALTERATION: 1-3% fine disseminated Py.</p> <p>STRUCTURE: 60-65 to CA from 170-173m. Foliation at top contact 75. Foliation in dacite 80 to CA above 175m, variable from 40 at 175.3 to 70 to CA at 176m. Foliation 80 to CA at lower contact.</p>											

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb
176.44	182.95	<p>MAFIC METAVOLCANICS (Maf. Vol., fg) - similar to interval from 157.53-173.88. Fine grained. Well foliated for 1-1.5m at margins. 176.44-177.5, banded with rod-like Chl-calcite, lineated fabric, likely a basaltic to andesitic massive flow.</p> <p>ALTERATION: Moderate-strongly chloritized, calcite altered. 2-3% fine disseminated Py. 1-2% calcite filled fractures, randomly oriented < 5mm wide.</p> <p>STRUCTURE: Top contact abrupt, foliation parallel. Lower contact broken to weakly sheared over 40-45cm within mafics. Foliation within contact zone 40-55 to CA.</p>												
182.95	184.6	<p>DACITIC QTZ EYE TUFF (QID, fg-mg) - very similar to interval from 173.88-176.44. Weakly banded throughout from bleaching along fractures.</p> <p>ALTERATION: 1-2% fine disseminated Py.</p> <p>STRUCTURE: Foliation variable from 45 to CA at top contact, to near parallel to CA at 184. 65 to CA at 184.3, to 40 to CA at vein contact. Small scale folding?</p> <p>184.4 to 184.85: 70% vein qtz with fracture-controlled subconcordant contacts.</p>	183.60	184.36	0.76	50.000	6.000	80.000	NIL	NIL	NIL	NIL	NIL	NIL

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PROPERTY: Richardson
 HOLE No.: NR9618

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb
		. ALTERATION: 3-4% fine disseminated Py. Chloritized inclusions of footwall wallrock. . STRUCTURE: Foliation around veining 40-45 to CA.												
184.7	185.01	MAFIC METAVOLCANICS (Maf. Vol.) - similar to interval from 176.44-182.95. . ALTERATION: Moderately bleached and sericitized, over 5-10cm adjacent to qtz vein. . STRUCTURE: Foliation at end of hole 50-55 to CA.	184.36	185.01	0.65	15.000	5.000	130.000	NIL	NIL	NIL	NIL	NIL	NIL

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
36.00	-57.00	
113.00	-55.00	
183.00	-54.00	
185.01	-54.00	

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DIAMOND DRILL LOG

PROPERTY: Richardson
 HOLE No.: NR9619
 Collar Eastings: -650.00
 Collar Northings: -875.00
 Collar Elevation: 15.00
 Grid: Rich

Collar Inclination: -75.00
 Grid Bearing: 0.00
 Final Depth: 329.10 metres
 DDH drilled on claim Lot5,ConI, Richardson Twp.Drill contractor, Bradley Bros. Dia

Logged by: C.A. Wagg
 Date: 23/03/96-27/03/96
 Down-hole Survey: Sperry Sun/Acid Test

FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
0	3.6	OVERBURDEN (OB) - Lowermost .6m bedrock. Similar to unit described below.												
3.6	17.2	MAFIC INTERMEDIATE METAVOLCANICS (Maf. Vol., Int.) - fine grained. Medium grey-green to dark brown andesitic? in composition. Above 9.5m, strongly banded due to shearing/ fracturing with calcite +/- qtz resealing fractures. Below 5.7m qtz-calcite filled amygdules occasionally present. Common, approximately 5% from 10.4-13.0. Rare from 14-17m. Short intervals of calcite cemented microbreccia over 10cm at 6.8m, 30cm at 8.1, 20cm at 9.10. . ALTERATION: Moderate biotite alteration at margins of unsheared lozenges. Moderate pervasive calcite alteration. Trace 1% Py. . STRUCTURE: Foliation 45-50 to CA at 4.0m, foliation 55 to CA at 8.5m. . COMMENTS: Fine extrusive, banded with some biotite. . 8.8 to 9.24: Subconcordant calcite and qtz vein. .	8.75	9.05	0.30	5	75.000	126.000	NIL	4.000	NIL	NIL	NIL	NIL
			9.05	9.47	0.42	55	83.000	320.000	1.400	8.000	NIL	NIL	NIL	
			14.58	15.02	0.44	25	66.000	166.000	0.800	4.000	NIL	NIL	NIL	

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9619

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		ALTERATION: Sericitized wallrock. 3-5% fine Py, most replacing inclusions of wallrock. Trace tourmaline.												
		STRUCTURE: Foliation 40-45 to CA.												
		14.75 to 15.15: Strongly bleached, epidote-sauserite-calcite altered interval with a few percent qtz stringers and generally coarse late? sulphides.												
		ALTERATION: 1-2% Py with minor pyritic inclusions < 1%. Trace muscovite, tourmaline, kyanite, all apparently associated with sulphides. 1-2% disseminated Py, in bleached wallrock.												
		STRUCTURE: Zone contacts 20-25 to CA, near perpendicular to foliation at 55-65 to CA.												
17.2	48.17	MAFIC METAVOLCANICS (Maf. Vol.) - medium-crs. grained. Medium grey-green to dark green. Generally mod-strongly magnetic, containing a few to 5% small blue qtz eyes. Mafic silicates 40-60% mostly chloritized amphiboles. Fine feldspars sauseritized, groundmass epidote "rich". Spotted in places with .5 x 1cm clusters of fine amphibole, after pyx phenocrysts?	33.10	33.67	0.57	25	57.000	183.000	0.400	NIL	NIL	NIL	NIL	NIL
		ALTERATION: < 1% fine Py, most from < 1cm wide filled fractures. 3-5% fine disseminated magnetite												

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9619

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		present within well foliated and altered intervals. 1-2% very fine garnet present over 20cm at 28.05m.												
		STRUCTURE: Foliation 45-55 to CA. Foliation 45 to CA at 24.5m. Foliation 55-60 to CA at 29m. 50 to CA at 32m.												
		29.75 to 31.25: Relatively fresh interval < 20% fsp, 5-7% qtz eyes, remainder amphiboles. Weakly foliated.												
		ALTERATION: 3-5% small-med. sized disseminated Py aggregates, trace 1% fine garnet.												
		COMMENTS: Strongly fractured below 27.5m, > 6/30cm most cemented with hairline calcite fillings.												
		32.5 to 33.65: Weakly-moderately sheared at 30-40 to CA. Subparallel to adjacent foliation's. Includes 5-10cm wide qtz vein at 33.55.												
		ALTERATION: Strongly Chl-calcite altered. 2-3% Py within vein. 3-5% biotite over 20cm at 35.75.												
		STRUCTURE: Shearing 30-40 to CA. Contacts foliation parallel. Foliation 50-55 to CA at 33.75m.												
		37.85 to 39.4: Relatively fresh coarse grained. 30% pale grey fsp. 5-7% < 3mm qtz eyes, remainder amphibole rich												

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9619

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS													
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb		
		qtz gabbro.														
		- ALTERATION: 1-3% fine disseminated Py. Moderately magnetic, 2-3% very fine disseminated magnetite. - STRUCTURE: Well foliated. Contacts distinct foliation parallel. -														
		42.55 to 43.75: Similar to interval from 37.85-39.4 but coarser grained, weakly foliated and less mafic. Diorite or qtz diorite. -														
		ALTERATION: 1% fine Py. Contains 4-5% coarse, to 3mm disseminated magnetite over lowermost .5-.6m. - STRUCTURE: Foliation parallel contacts no visible chill. -														
		43.25 to 48.17: Fine-medium grained, gabbroic in appearance.														
48.17	48.92	QTZ-FSP PORPHYRY (QTZ-FSP Porph.) - Fine grained porphyritic. Medium grey with grey-white spots. Top 15cm fine crystal tuff, no eyes/phenocrysts. Lower 60cm qtz-fsp porphyry flow? 50-60% phenocrysts up to 3mm diameter, fsp >> qtz, 40% fine chlorite, 2-3% biotite. - ALTERATION: Trace 1% Py. 2-3% fine disseminated Py. Biotite present for several cm from contact with in gabbroic country rock.														

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9619

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		<p>STRUCTURE: All contacts, foliation parallel, no chilling.</p> <p>COMMENTS: Strong fracturing > 6/30cm, ends at 53.5m.</p>												
48.92	63.57	<p>MAFIC METAVOLCANICS (Maf. Vol.) - medium-coarse grained. Similar to interval from 17.2-48.17m, but slightly finer grained, moderate-strongly magnetic, weakly-moderately foliated. Subconcordant to crosscutting qtz stringers over 10cm at 51.5, 51.9. 52.4-52.75, crosscutting non-planar qtz vein.</p> <p>ALTERATION: Trace-1% Py on average, trace Cp, Po along foliation parallel fracture with some qtz at 50.25. Moderate pervasive Chl-calcite alteration. 2-3% Py over 15cm at 51.9. Strong calcite-sausserite alteration of wallrock inclusions and 1-2% fine Py from 52.4-52.75.</p> <p>STRUCTURE: Foliation variable from 45-60 to CA, averaging 50-55. Foliation 60 to CA. Contacts average, approximately 20 to CA. Foliation 55-60.</p> <p>60.19 to 62.83: Mafic to intermediate flow. Well foliated, weakly banded. Medium green-brown, fine grained. 15-20% biotite as 1 x 3-4mm lenses aligned parallel to foliation, presumably of metamorphic origin. Remainder subequal amounts of fine</p>	53.30	53.85	0.55	15	158.000	149.000	0.800	10.000	NIL	NIL	NIL	NIL

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9619

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		fsp and amphibole. - ALTERATION: 3-4% disseminated magnetite as < 2mm grains. 1-2% fine Py on average. Weak chlorite, moderate calcite-sauserite alteration. - STRUCTURE: Foliation 45-55 to CA. Contacts foliation parallel. Top 50-55 to CA, bottom 40 to CA.												
63.57	64.42	DACITIC FRAGMENTAL (Dacitic Fragmental) - fine grained. Pale grey streaked with black. Poorly sorted small-lg. < 1 to 4cm > fragments set in a reasonably mafic groundmass. Rare angular qtz lapilli to .5 x 1cm. - ALTERATION: 3-4% fine-med. grained disseminated Py. Moderate-strong pervasive calcite alteration. 3-4cm wide qv, trace Py 1-2% tourmaline at 65.2m. - STRUCTURE: Foliation 40-65. Contacts foliation parallel. Contacts 65-75 to CA. - COMMENTS: Mafic ash groundmass Chl > Biotite.												
64.42	104.0	MAFIC METAVOLCANICS (Maf. Vol.) - med.-coarse grained. Similar to interval from 60.19-62.83. Well foliated, spotted with 10-20% biotite "lenses". Includes	63.57	64.51	0.94	160	64.000	195.000	1.000	9.000	NIL	NIL	NIL	NIL
			64.51	65.18	0.67	275	39.000	137.000	0.600	6.000	NIL	NIL	NIL	NIL
			65.18	65.80	0.62	50	95.000	730.000	0.600	3.000	NIL	NIL	NIL	NIL

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		concordant felsic dyke from 66.97-68.15. Porphyritic with approximately 60% zoned? Potassic to sodic feldspar phenocrysts to 5mm diameter. 5-7% acicular dark-green to black amphibole to 1 x 5mm. Qtz if present occurs only within fine to aphanitic groundmass. Broadley syenitic.	69.95	70.60	0.65	60	42.000	139.000	0.200	7.000	NIL	NIL	NIL	NIL
			71.22	71.82	0.60	35	52.000	154.000	NIL	NIL	NIL	NIL	NIL	
			74.90	75.93	1.03	5	65.000	153.000	0.200	2.000	NIL	NIL	NIL	
			75.93	76.70	0.77	20	54.000	127.000	0.200	2.000	NIL	NIL	NIL	
			93.23	93.61	0.38	2370	91.000	112.000	2.400	34.000	NIL	NIL	NIL	
			101.22	101.70	0.48	10	80.000	197.000	0.400	NIL	NIL	NIL	NIL	
		ALTERATION: 1-2% fine Py. Trace Cp, Sp in contorted qtz stringer at 25-30 to CA at 65.55. Trace-1% fine Py.												
		COMMENTS: Contacts not appreciably chilled but inclusion of wallrock 10cm long occurs at 68.0.												
		69.02 to 69.38: Crosscutting fine gabbroic dyke.												
		ALTERATION: Mod-strong pervasive calcite alteration. Weak chloritization. 1% fine Py. 5-7% fine disseminated Py, and tourmaline present within 3-4cm wide crosscutting qv at 69.98 and within silicified material over lowermost 15-20cm of interval.												
		STRUCTURE: Contacts chilled, 55-60 to CA, near perpendicular to foliation at 50-55 to CA. Qv at top contact vein 65-70 to CA. Most calcite stringers foliation parallel, some folded and near CA parallel. Lower contact subconcordant, and very irregular.												
		75.0 to 88.0: Much less abundant biotite than from 64.42-75.0. Still contains up to 5% disseminated magnetite, and also commonly up to 20% calcite altered relic fsp phenocrysts												

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DIAMOND DRILL LOG

PROPERTY: Richardson

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		<p>elongated parallel to foliation. Includes, 88.55-87.3, fine grained feldspar porphyry dyke 10-15% fine biotite. Feldspar augens evident only over lowermost 10-15cm. Probably intrusive.</p> <p>ALTERATION: 2-3% fine disseminated Py, 2-3 % calcite-qtz stringers, subparallel to foliation. Moderate-strongly pervasive Chl-calcite alteration.</p> <p>STRUCTURE: Foliation 55-65 throughout averaging about 60 to CA. Foliation parallel weakly chilled? contacts 55 to CA. Foliation 60-70 to CA from 88-93m.</p> <p>88.0 to 104.0: medium grained gabbroic metavolcanics similar to interval from 43.25-48.17. Includes contaminated? intermediate-felsic dyke from 93.3-93.6. 101.4, 10-15cm wide zone of foliation parallel calcite-qtz veining.</p> <p>ALTERATION: Dyke, 8-10% fine-med. grained disseminated Py.</p> <p>STRUCTURE: Contacts at foliation parallel to subparallel 50-55 to CA.</p> <p>102.95 to 104: Uniformly fine grained. No obvious physical contact with overlying subunit. Possibly a broad chilled margin, if gabbroic metavolcanics are primarily intrusive.</p> <p>ALTERATION 2-3% fine Py. Moderate biotite alteration of wallrock. 1-2% fine disseminated Py.</p>												

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9619

FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS								
						Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		STRUCTURE: Contacts foliation parallel 60 to CA.												
104.0	112.22	MAFIC-INTERMEDIATE METAVOLCANICS (Maf. Vol., Int.) -	104.10	104.64	0.54	70	240.000	240.000	0.800	6.000	NIL	NIL	NIL	NIL
		104.0-108.12, fine grained, reasonably well banded, extrusive?	104.64	105.64	1.00	185	105.000	400.000	0.600	6.000	NIL	NIL	NIL	NIL
		Mafic-intermediate metavolcanics. Medium green-brown.	108.02	108.50	0.48	NIL	51.000	NIL	NIL	NIL	NIL	70.000	NIL	NIL
		Calcite cemented hairline fractures in random orientations	108.50	109.41	0.91	5	108.000	NIL	0.300	NIL	NIL	67.000	NIL	NIL
		have chloritized margins to 5mm which crosscut and overprint	109.41	110.46	1.05	5	103.000	NIL	0.200	NIL	NIL	65.000	NIL	NIL
		biotite alteration. 105.7-106.15, shattered to brecciated,	110.77	111.50	0.73	NIL	82.000	NIL	NIL	NIL	NIL	63.000	NIL	NIL
		recemented by < 1mm calcite fracture fillings. Well fractured	111.50	111.80	0.30	10	118.000	NIL	NIL	0.300	NIL	67.000	NIL	NIL
		throughout remainder of interval. Pinkish brown tinted where												
		brecciated. 107.0, 5-10cm wide bed of broken chert.												
		ALTERATION: 3-4% fine-med. grained disseminated Py.												
		Rarely as bands of disseminated grains < 1cm wide. Moderately												
		chloritized with biotite alteration over < 1-10cm wide bands.												
		Strong pervasive calcite alteration throughout. 8-10% Py												
		over 10cm within chert.												
		STRUCTURE: Contacts and foliation 60												
		to CA.												
		108.12 to 112.22: Identifiable flow contact and colour change												
		to med.-dark green magnetic rock. Well foliated, weakly												
		banded. Sheared or possibly a fine fragmental from 111.5-112.22												
		includes tightly folded calcite veinlet over 10cm at 111.55.												

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PROPERTY: Richardson

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FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	ASSAYS									
						Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb	
		<p>ALTERATION: Weakly-moderately magnetic throughout. Trace Pyrrhotite at top of unit. Trace-1% as small lenslike clusters of disseminated grains below 109.5.</p> <p>-</p> <p>STRUCTURE: Contact foliation parallel 45 to CA. Foliation 60 to CA at 110, 55 to CA at 111.5.</p>													
112.22	122.80	<p>QTZ-FSP CRYSTAL TUFF (QID, fsp, fg) - fine grained. Medium grey-green. 3-4% sm.-med. 1-2mm qtz eyes. Locally up to 7-8% fine fsp phenocrysts, largely altered to calcite. Locally to 5% very fine biotite.</p> <p>-</p> <p>ALTERATION: 3-4% very fine disseminated Py. Locally to 7-8% over 30-50cm.</p> <p>-</p> <p>STRUCTURE: Foliation 55-60 to CA.</p> <p>-</p> <p>118.45 to 119.15: Contorted zone of strong bleaching, calcite replacement, and 3-5% qtz stringers.</p> <p>-</p> <p>ALTERATION: 2-3% fine Py, trace tourmaline.</p> <p>-</p> <p>STRUCTURE: Bleaching crosscuts foliation averaging approx. 20 to CA.</p>	111.80	112.26	0.46	10	94.000	NIL	NIL	NIL	NIL	68.000	NIL	NIL	
122.8	132.7	<p>MAFIC-INTRUS. METAVOLCANICS (Maf. Vol., Intrus.) -</p>	123.60	124.27	0.67	35	250.000	NIL	NIL	0.400	NIL	72.000	NIL	NIL	

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PROPERTY: Richardson
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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		similar to interval from 108.12-112.22. Moderately magnetic throughout.	124.27	125.58	1.31	10	144.000	NIL	NIL	0.400	NIL	74.000	NIL	NIL
		.	125.58	126.31	0.73	5	127.000	NIL	NIL	0.200	NIL	57.000	NIL	NIL
		.	126.31	126.70	0.39	15	182.000	NIL	NIL	0.200	NIL	62.000	NIL	NIL
		ALTERATION: 1-2% fine disseminated Py above 123.40.	126.70	127.48	0.78	65	235.000	NIL	NIL	1.400	NIL	69.000	NIL	NIL
		Similar fine magnetite? 1-3% fine Po and Py from 123.4-127.5, often concentrated within calcite +/- qtz stringers.	131.00	131.71	0.71	15	100.000	NIL	NIL	0.300	NIL	56.000	NIL	NIL
		.	131.71	132.36	0.65	15	113.000	NIL	NIL	0.300	NIL	49.000	NIL	NIL
		STRUCTURE: Contact foliation parallel, 60 to CA. Foliation 60 to CA above 130m.												
		.												
		127.65 to 132.7: Weakly biotite altered with 1-2% < 2mm diameter calcite filled vesicles.												
		.												
		ALTERATION: Below 127.5, 1-2% Py and Po. Trace Cp with Po in 1-2cm wide foliation parallel calcite vein at 129.2. 2-3% disseminated Po from 131.7-132.35.												
		.												
		STRUCTURE: Foliation 50-60 to CA from 132-134m. Foliation 55-65 to CA from 135-141.5.												
		.												
		COMMENTS: Balsaltic in appearance.												
132.7	145.5	FINE MAFIC METAVOLCANIC (Maf. Vol., fg) - similar to 122.8-132.7, but dark green-black. Rare patches of disseminated to semi-massive Po, occur as small lenses/clusters to 1x 3mm usually, but not always, associated with early? fractures.	133.67	134.46	0.79	10	195.000	NIL	NIL	0.300	NIL	45.000	NIL	NIL
			134.99	135.90	0.91	30	77.000	NIL	NIL	0.200	NIL	38.000	NIL	NIL
			135.90	136.72	0.82	40	130.000	NIL	NIL	0.200	NIL	46.000	NIL	NIL
			137.45	137.83	0.38	10	149.000	NIL	NIL	0.500	NIL	46.000	NIL	NIL
			139.07	139.65	0.58	5	143.000	NIL	NIL	0.200	NIL	51.000	NIL	NIL

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DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9619

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
.	.	ALTERATION: 1-3% disseminated Po, trace Cp, Py.	139.65	140.33	0.68	NIL	139.000	NIL	NIL	0.300	NIL	50.000	NIL	NIL
.	.	Calcite alteration primarily restricted to fractures and vesicles.	141.60	142.00	0.40	NIL	122.000	NIL	NIL	NIL	NIL	68.000	NIL	NIL
.	.	STRUCTURE: Foliation 60-65 to CA from 142-145.5m.	142.00	142.58	0.58	15	82.000	NIL	NIL	NIL	NIL	58.000	NIL	NIL
.	.	142.20 to 143.7: Strongly altered interval with 1-2% vesicles. Resembles 127.65-132.7. Includes 40% calcite stringers, 1-2% Po and Py, trace Cp, over 20-25cm at 143.1.	143.55	145.00	1.45	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
.	.	ALTERATION: Weakly magnetic throughout. < 1% disseminated Po. Strong Chl-calcite, weak biotite alteration. Below 143.5, 1-2% Po and Py.												
.	.	STRUCTURE: Foliation 60-65 to CA. Foliation parallel veinlets.												
145.5	146.45	INTRUSIVE-FELSIC CRYSTAL TUFF (QID, fg-mg) - fine-med. grained. Pale grey. < 10% fine mafic silicates primarily Chl-biotite, minor green amphibole. Trace sm.-med. qtz eyes. Contorted qtz-calcite veinlets over 15-20cm at both contacts.												
.	.	ALTERATION: Trace 1% Py. 1-2% fine Py.												
.	.	STRUCTURE: Foliation 65 to CA.												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		COMMENTS: WRA 96-19-142, same as 73843, 846 but with strong pervasive calcite and biotite? alteration Somewhat "bleached" with a brownish tint.												
146.45	149.45	FINE MAFIC METAVOLCANICS (Maf. Vol., fg) - similar to interval from 132.7-145.5, moderately magnetic, stronger alteration. - ALTERATION: Moderate-strong Chl-calcite-biotite alteration throughout. 1-3% fine Py above 148.1. 5-7% fine Py below 148.1. - STRUCTURE: Foliation S5 to CA.	146.30 148.10	146.75 148.69	0.45 0.59	15 20	4.000 87.000	102.000 113.000	NIL NIL	NIL 3.000	NIL NIL	NIL NIL	NIL NIL	NIL NIL
149.45	162.5	INT. FELSIC QTZ EYE CRYSTAL TUFF (QID, fg-mg) - fine-med. grained. Medium-dark grey. Very weakly banded due to minor bleaching along foliation parallel to crosscutting fractures. 1-2% small qtz eyes. - ALTERATION: 1-2% very fine disseminated Py. - COMMENTS: Tuff weakly fractured compared to mafic metavolcanics. Calcite fillings are very rare. - 162.05 to 162.5: Several 2-3cm wide foliation parallel qtz-calcite veins, and foliation at lower contact sheared,	161.61	162.03	0.42	15	19.000	1000.000	0.600	NIL	NIL	NIL	NIL	NIL

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PROPERTY: Richardson

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		crenulated.												
		ALTERATION: Black amphibole or tourmaline present at lower contact.												
		STRUCTURE: Contact, shearing 40-45 to CA. Foliation 60 to CA at 163m.												
163.0	201.30	FINE MAFIC METAVOLCANICS (Maf. Vol., fg) - similar to interval from 146.45-149.45, well foliated, mod-strongly altered. Somewhat banded due to alteration. 5% 1-3mm calcite filled vesicles over 30cm at 183.8.	162.16	162.70	0.54	75	78.000	82.000	NIL	NIL	NIL	NIL	NIL	NIL
			167.15	168.05	0.90	NIL	131.000	NIL	NIL	NIL	60.000	NIL	NIL	NIL
			185.42	186.07	0.65	45	345.000	NIL	0.600	NIL	71.000	NIL	NIL	NIL
			186.07	186.25	0.18	3280	780.000	2.390	3.000	4.000	NIL	NIL	NIL	NIL
			186.25	187.70	1.45	840	500.000	NIL	1.400	NIL	71.000	NIL	NIL	NIL
		ALTERATION: 2-3% fine disseminated Py, trace Po above 167. Trace Sph within foliation parallel calcite stringers over 10cm at 165.6m. 2-3% fine garnet? present over 30cm at 166m. Moderate-strong Chl-biotite-calcite.	187.70	188.05	0.35	70	650.000	NIL	1.600	NIL	86.000	NIL	NIL	NIL
			188.05	188.93	0.88	15	395.000	NIL	0.700	NIL	64.000	NIL	NIL	NIL
		STRUCTURE: Foliation 50-60 to CA from 164-184m.												
		186.75 to 188.5: Several relatively coarse grained, 30cm intervals with "fresh" igneous texture. Subequal amounts of amphibole, after pyx?, and fine fsp-rich groundmass. 2-3% small qtz eyes. Medium grained qtz gabbro at 187.15, could possibly be a dyke with foliation parallel contacts.												

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DIAMOND DRILL LOG

PROPERTY: Richardson
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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS													
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb		
		ALTERATION: Two < .5cm Sph filled foliation parallel fractures at 186.1. < 1% Po on average, generally as rare coarse grains or clustered fine dissemination.														
		191.7 to 192.05: Possible fine grained version of pyroxenitic gabbro. Crosscutting non-magnetic dyke. Similar material present over 30-50cm of broken core at 200.25-200.75?														
		ALTERATION: Weakly chloritized, trace Py.														
		STRUCTURE: Foliation 55-60 to CA. Contacts at 40-45 to CA. Foliation 55 to CA at 199-200m. Lower contact with dacites 60 to CA, foliation parallel.														
201.3	281.1	QTZ EYE DACITE CRYSTAL TUFFS (Q10, fg-mg) - similar to interval 149.45-162.5. Slightly paler, with 1-2% small qtz eyes and < 5% fine mafic silicates on average.	201.25	201.65	0.40	15	30.000	113.000	0.200	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			201.65	202.06	0.41	80	17.000	2050.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			208.83	209.35	0.52	45	13.000	980.000	0.200	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			210.90	211.35	0.45	20	29.000	2950.000	0.200	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: 1-3% fine disseminated Py. Two mm wide Sph filled foliation parallel fractures at 201.9.	247.58	248.04	0.46	190	11.000	125.000	0.500	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			250.42	251.50	1.08	25	8.000	113.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			252.42	253.21	0.79	NIL	8.000	111.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		STRUCTURE: Foliation 55 to CA.	273.60	274.33	0.73	165	21.000	127.000	0.200	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			274.33	275.10	0.77	NIL	12.000	94.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		206.4 to 206.5: Subconcordant irregular walled qtz vein.	275.10	275.64	0.54	NIL	12.000	93.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			275.64	276.10	0.46	NIL	8.000	101.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: Trace Py, tr tourmaline.	276.10	276.55	0.45	NIL	22.000	83.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
.	.		276.55	277.60	1.05	25	19.000	164.000	NIL	5.000	NIL	NIL	NIL	NIL
208.25	214.90	Fine-med. grained qtz-eye dacite tuff. 5-7% sm.-lg. 1-5mm qtz eyes. Including, 208.25-	278.60	279.10	0.50	NIL	9.000	58.000	NIL	3.000	NIL	NIL	NIL	NIL
208.75		moderately bleached. 2-3% disseminated Sph over 20-25cm.	279.86	280.46	0.60	5	14.000	63.000	NIL	NIL	NIL	NIL	NIL	NIL
			280.46	280.89	0.43	70	111.000	730.000	0.400	NIL	NIL	NIL	NIL	NIL
.	.	ALTERATION: 2-3% fine disseminated Py. Moderately bleached over 5-50cm intervals. Trace Sph locally along fractures or as foliation parallel wisps, 1 x 3-5mm.												
214.90	218.7	Similar to interval from 201.3-208.25. Fine, few eyes, 5-10% Chl +/- amphibole. Gradual increase in grain size and qtz eye abundance to 3-4%.												
.	.	ALTERATION: 2-3% fine disseminated Py. Trace Sph at 215.2. Contacts weakly bleached.												
218.7	230.36	Qtz-fsp porphyry intrusive? Med.-dark grey. 10-15% fine mafic silicates, primarily amphibole. 3-4% sm.-med. sized qtz eyes. Commonly 1-3% small fsp phenocrysts locally to 5% over 10-15cm. Includes 223.5-227.0, spotted with 10% k-spar, after Ca-Na-fsp?, "phenocrysts" to 2 x 4mm often as lenticular aggregates, rather than single crystals. 227.0-230.36, 7-10% fsp phenocrysts, greenish-white. Fractured with mm wide bleaching as is remainder of unit.												
.	.	ALTERATION: 1-3% fine disseminated Py. Moderately-strongly fractured, most subparallel to foliation, with mm												

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		ASSAYS												
FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		wide bleaching, 4-8/30cm. 223.5-227.0, strong pervasive k-spar alteration from 224.75-225.10, with weak Chl-epidote-sauserite. Moderate pervasive calcite alteration throughout. 221.0-230.36, fsp phenocrysts strongly sausseritized. Weak calcite alteration of groundmass.												
		STRUCTURE: Foliation 50 to CA. Contact bleached over 1-2cm, 50-55 to CA.												
		230.36-: Fine-med. grained qtz-fsp crystal tuffs. 2-3% small, rare large qtz eyes. 1-5% fine fsp crystals. Mod-strongly fractured foliation parallel to subparallel, with < 1cm bleaching. Crosscutting bleached on mm scale only. Contorted 4cm wide qtz-Py stringer almost CA parallel over 40cm at 247.8.												
		ALTERATION: 2-3% fine disseminated Py on average, to 5-7% over < 30cm intervals. K-spar alteration present along most fractures from 237.5-243.0. Strong irregular shaped bleaching over 15-20cm appears related to veining. 5-7% Py over interval.												
		STRUCTURE: Veining fracture controlled, does not disrupt foliation.												
		251.3 to 254.1: Weak-moderate pervasive bleaching with a greenish tint. 1-2% qtz stringers to 1-2cm, generally crosscutting. Includes 3cm wide crosscutting fine grained mafic dyke at 253.4.												

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			ASSAYS											
FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		ALTERATION: Chlorite, some epidote present along fractures. Fine Chl +/- epidote colours bleaching greenish. Some silicification present. 4-5% fine Py on average.												
		STRUCTURE: Foliation 50-55 to CA. Dyke contacts near perpendicular to foliation 55 to CA.												
		266.4 to 267.2: Crosscutting fine-med. grained mafic dyke. Gabbroic in appearance with 20-30% fine fsp. Largely replaced by calcite.												
		ALTERATION: Moderate-strong Chl-calcite alteration. Trace Py.												
		STRUCTURE: Foliation 50-55 to CA from 255-265. Both contacts 45-50 to CA, perpendicular to foliation.												
		272.25-: Trace garnet present. 2-3% fine garnet above 274. Trace med., 1-2mm, sized garnet below 274 to end of interval.												
		ALTERATION: 2-3% fine disseminated Py.												
		275.5 to 281.1: Approx. 20% vein Qtz, most as foliation parallel to subconcordant 10-15cm wide veins. Exception being fracture controlled veins at < 20 to CA from 279.95-280.75. Fracture controlling "footwall" contact extends beyond vein, Contains 1 x 5cm seam of Sph with Qtz at lower												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		contact 281.1.												
		ALTERNATION: Veins contain more chlorite, trace tourmaline. Trace-1% Py. Wallrock weakly bleached with very minor silicification. Trace Po, minor epidote-calcite at 278.8.												
		STRUCTURE: Foliation vein contacts 50-60 to CA.												
281.1	288.95	MAFIC-INT. METAVOLCANIC (Maf. Vol., Intrus.) - fine grained. Banded, due in part to shearing/alteration?, Dark grey to black. Trace qtz eyes, fsp crystals in places. Weakly to moderately magnetic. Resembles interval from 104-112m somewhat, but darker, more banded, with more sulphides.	280.89	281.20	0.31	70	170.000	3900.000	0.700	NIL	NIL	NIL	NIL	NIL
			281.20	281.80	0.60	20	171.000	670.000	0.600	NIL	NIL	NIL	NIL	NIL
			281.80	282.20	0.40	10	131.000	460.000	0.500	NIL	NIL	NIL	NIL	NIL
			282.20	282.46	0.26	115	63.000	235.000	0.400	3.000	NIL	NIL	NIL	NIL
			282.46	283.03	0.57	5	48.000	186.000	0.400	2.000	NIL	NIL	NIL	NIL
			283.03	283.90	0.87	20	110.000	390.000	0.700	NIL	NIL	NIL	NIL	NIL
		ALTERNATION: Trace garnet. 3-5% disseminated Py below 284.75. Disseminated to weakly banded. Up to 1/2 the sulphide being Po over 10-30cm intervals.												
		STRUCTURE: Contact gradational, main change across a vein at 281.1												
		281.1 to 284.75: Well mineralized interval with qtz veins and intense bleaching over 20cm at 287.1 and from 282.4-282.75.												
		ALTERNATION: 5-7% Py and Po on average, with 30-40% disseminated Py over 10cm at 282.3.												

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DIAMOND DRILL LOG

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb
		<p>STRUCTURE: Foliation 55 to CA. Vein contacts approx. 30 to CA subparallel to foliation. Contact foliation parallel abrupt.</p> <p>COMMENTS: 284.75-288.95, cm scale med. grey bands, may be ash tuff beds.</p>												
288.95	329.1	<p>FINE-MED. QTZ EYE CRYSTAL TUFFS (QID, fg-mg.) - resembles interval from 201.3-281.1. 3-5% small fsp phenocrysts common above 307m. 2-3% sm.-med. sized qtz eyes throughout. Moderately-strongly banded due to mm scale bleaching along foliation parallel fractures, and much less common crosscutting fractures. Interval includes three crosscutting altered gabbroic dykes.</p> <p>ALTERATION: Weak pervasive bleaching with minor silicification plus fine chlorite in places from 325.5-329.1. Tourmaline and qtz along crosscutting fractures at 326.3, 327.0. Three gabbroic dykes all have mod-strong Chl-calcite alteration and trace Py.</p> <p>STRUCTURE: Foliation consistently 50-60 to CA averaging 55. Foliation 50-55 to CA at 329m. Contacts essentially perpendicular to foliation at 40-50 to CA.</p> <p>296.75 to 297.60: Calcite tension gash fillings</p>	325.50	326.15	0.65	15	22.000	97.000	NIL	NIL	NIL	NIL	NIL	NIL
			326.15	326.92	0.77	NIL	17.000	59.000	NIL	NIL	NIL	NIL	NIL	NIL
			326.92	328.02	1.10	NIL	8.000	51.000	NIL	NIL	NIL	NIL	NIL	NIL
			328.02	329.10	1.08	NIL	11.000	53.000	NIL	NIL	NIL	NIL	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS														
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pd ppb			
		defining a late tectonic fabric.															
		.															
		310.3 to 312.1: Gabbroic dyke. Similar to 296.75-297.6, but fresher and coarser. No fabric.															
		.															
		315.5 to 315.8: Midway between previous two dykes in degree of alteration. Weak foliation parallel to contacts approx. 45 to CA. End of hole.															

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
4.90	-75.00	
84.12	-74.00	1.00
145.08	-73.00	4.00
206.04	-72.50	2.00
267.00	-72.00	4.00
327.96	-71.00	6.00
329.10	-71.00	

Nuinsco Resources Limited

DIAMOND DRILL LOG

PROPERTY: Richardson

HOLE No.: NR9620

Collar Eastings: -2000.00

Collar Northings: 250.00

Collar Elevation: 5.00

Grid: Rich

Drill contractor, Ultra Mobile Diamond Drilling.

Collar Inclination: -55.00

Grid Bearing: 0.00

Final Depth: 172.21 metres

Logged by C.A.Wagg

Logged by:

Date: 27/03/96-29/03/96

Down-hole Survey: Acid Test

DDH drilled on claim Lot7, ConII, Richard

			ASSAYS												
FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb	
0	18.40	OVERBURDEN (OB) - Casing.													
18.4	126.6	QTZ EYE DACITE CRYSTAL TUFF (QID, fg-mg) - fine-med. grained. Pale grey, weakly-moderately banded with variable density micaceous shear/fracture planes, and in places closely spaced < 1-2cm wide calcite-qtz stringers parallel to foliation. 3-5% sm.-lg. 1-5mm qtz eyes. 10cm wide foliation parallel qtz-calcite stringers at 28.50, 32.55, 36.70, over 35-40cm at 38.95 and over 40cm at 41.45. Strongly bleached from 49.5-55.5 with patches of very fine recrystallized/silicified? groundmass at 51.0, 51.7, 54.2. - ALTERATION: 2-5% fine disseminated Py. Mod-strongly bleached, sericitized with weak pervasive calcite alteration. Trace Py, 5-10% at 36.70. Trace 1% Py at 38.95, 1-2% fine Py at 41.45. - STRUCTURE: Foliation at 18.4 approx. 10 to CA, 45 to CA at 19.5, 60-70 to CA at 20-28, 70 to CA from 28-30m. Foliation 60-70 to CA from 30-49m, 40-50 to CA from 50.5-51.0, 60 to CA from 50.25-	18.40	18.80	0.40	30.000	23.000	114.000	NIL	2.000	NIL	NIL	NIL	NIL	NIL
			20.95	21.95	1.00	35.000	9.000	73.000	0.400	4.000	NIL	NIL	NIL	NIL	
			33.95	34.85	0.90	50.000	15.000	105.000	0.400	2.000	NIL	NIL	NIL	NIL	
			34.85	35.40	0.55	5.000	7.000	75.000	0.400	4.000	NIL	NIL	NIL	NIL	
			38.71	39.49	0.78	25.000	23.000	82.000	0.600	4.000	NIL	NIL	NIL	NIL	
			39.49	40.10	0.61	35.000	15.000	95.000	1.000	3.000	NIL	NIL	NIL	NIL	
			41.23	42.11	0.88	50.000	5.000	71.000	0.600	3.000	NIL	NIL	NIL	NIL	
			50.20	50.90	0.70	200.000	20.000	66.000	0.200	2.000	NIL	NIL	NIL	NIL	
			50.90	51.82	0.92	100.000	22.000	74.000	0.200	3.000	NIL	NIL	NIL	NIL	
			51.82	52.65	0.83	35.000	33.000	80.000	0.200	NIL	NIL	NIL	NIL	NIL	
			53.20	54.08	0.88	95.000	14.000	76.000	0.200	2.000	NIL	NIL	NIL	NIL	
			54.08	54.85	0.77	35.000	28.000	91.000	0.200	2.000	NIL	NIL	NIL	NIL	
			58.10	58.80	0.70	10.000	15.000	73.000	0.200	34.000	NIL	NIL	NIL	NIL	
			61.91	62.65	0.74	135.000	16.000	84.000	0.200	3.000	NIL	NIL	NIL	NIL	
			64.97	65.61	0.64	70.000	11.000	98.000	0.200	5.000	NIL	NIL	NIL	NIL	
			67.06	67.98	0.92	40.000	12.000	101.000	0.200	6.000	NIL	NIL	NIL	NIL	
			67.98	69.19	1.21	30.000	18.000	116.000	0.200	NIL	NIL	70.000	NIL	NIL	
			70.05	71.10	1.05	45.000	8.000	125.000	0.300	2.000	NIL	67.000	NIL	NIL	
			72.24	73.44	1.20	35.000	8.000	101.000	0.200	2.000	NIL	65.000	NIL	NIL	
			73.44	74.11	0.67	50.000	9.000	80.000	0.600	NIL	NIL	63.000	NIL	NIL	

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DIAMOND DRILL LOG

PROPERTY: Richardson
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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb
		70m. 65-70 to CA from 71-82, 70-75 to CA from 83-87, 65-70 to CA from 88-96, 70-75 to CA from 97-103, and 60-70 from 104-105.5m.	76.55	77.50	0.95	45.000	20.000	73.000	0.400	0.300	NIL	67.000	NIL	NIL
			84.07	84.68	0.61	45.000	17.000	120.000	0.400	3.000	NIL	68.000	NIL	NIL
			94.00	95.13	1.13	60.000	8.000	71.000	NIL	0.400	NIL	72.000	NIL	NIL
		.	100.20	101.25	1.05	10.000	12.000	65.000	0.200	2.000	NIL	74.000	NIL	NIL
		Below 75.0m: Banding very weak to absent. 84.45, 7cm wide concordant qtz-calcite vein, trace Py.	104.69	105.50	0.81	90.000	197.000	145.000	0.400	0.200	NIL	57.000	NIL	NIL
			105.50	105.89	0.39	15.000	11.000	106.000	NIL	0.200	NIL	62.000	NIL	NIL
		.	105.89	106.25	0.36	280.000	10.000	40.000	0.600	1.400	NIL	69.000	NIL	NIL
		ALTERATION: 1-3% very fine disseminated Py.	106.25	107.25	1.00	90.000	7.000	84.000	NIL	0.300	NIL	56.000	NIL	NIL
		Mod-strong pervasive sericitization.	114.90	115.87	0.97	15.000	20.000	74.000	NIL	0.300	NIL	49.000	NIL	NIL
		.	121.01	121.80	0.79	10.000	4.000	99.000	0.400	0.300	NIL	45.000	NIL	NIL
		104.70 to 105.51: Fsp phenocrysts up to 2 x 2mm, comprise 3-4% of unit, as do sm.-med. sized qtz eyes. Medium grey-no bleaching.	121.80	122.38	0.58	30.000	10.000	94.000	NIL	0.200	NIL	38.000	NIL	NIL
			122.38	123.51	1.13	40.000	7.000	83.000	NIL	0.200	NIL	46.000	NIL	NIL
		.	123.51	124.40	0.89	10.000	11.000	78.000	NIL	0.500	NIL	46.000	NIL	NIL
		ALTERATION: 2-3% fine disseminated Py.	124.40	125.44	1.04	5.000	15.000	69.000	NIL	0.200	NIL	51.000	NIL	NIL
			125.44	126.52	1.08	NIL	NIL	66.000	NIL	0.300	NIL	50.000	NIL	NIL
		.												
		105.65 to 106.15: Irregular walled qtz vein.												
		.												
		ALTERATION: Minor calcite, with chlorite clusters along top contact, strong sericitization of "footwall" contact over 10-15cm. 4-5% Py, concentrated near lower contact.												
		.												
		STRUCTURE: Both contacts crosscutting, lower contact folded and foliation kinked over 20cm. Top averages 25 to CA.												
		.												
		106.15 to 126.6: Fine qtz eye dacite, weakly banded,												

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS											
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb
		with only 1-2% generally small qtz eyes on average. "Inclusion" at 126.35 of intrusive QFP. Faulted into position? Irregular contact crosscuts foliation. . ALTERATION: Trace-1% fine Py. Moderately bleached, sericitized. Below about 121.75 strongly bleached to a beige colour-Rhyolitic in appearance. Weakly silicified below 115. Moderately silicified below 117m. Trace-1% tourmaline along foliation planes and resealing foliation parallel hairline fractures. Trace Py below 115m. . STRUCTURE: Foliation variable 60-65 to CA above 115m. Foliation 70-75 from 115-126.5. Foliation at 126.5 75 to CA.												
126.6	137.30	POTASSIC QTZ FSP PORPHYRY (Potassic QTZ FSP Porph.) - intrusive? Fine grained pinkish-grey. 3-5% sm.-lg. <5mm qtz eyes. 3-4% sm.-med. white fsp phenocrysts, subhedral. Locally to 10% over 20cm. Includes several lithic fragments of wallrock inclusions generally < 1cm. One subrounded fragment just below a second intrusive contact at 127.85. Two angular fragments at 132.8, and one 1.5 x 5cm apparently flattened at 133.9. . ALTERATION: Trace Py. Strong pervasive k-spar alteration of groundmass, otherwise dacitic in appearance.	128.30	129.00	0.70	NIL	NIL	81.000	NIL	NIL	NIL	68.000	NIL	NIL
			133.55	134.24	0.69	10.000	NIL	70.000	NIL	NIL	NIL	58.000	NIL	NIL

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FROM	TO	LITHOLOGICAL DESCRIPTION	ASSAYS														
			FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb			
		STRUCTURE: Intrusive contact planar, crosscuts foliation at 40 to CA. Well foliated internal contact at 127.85, 70 to CA, non-parallel to country rock foliation. Lower contact difficult to pinpoint, probably subconcordant at 137.3.															
137.3	172.21	QTZ EYE DACITE CRYSTAL TUFF (Q1D, fg-mg) - with fsp. phenocrysts and rare mafic lithic fragments. Fine-med. grained. Light-med. grey. 3-5% small to occasionally large Qtz. eyes. 3-5% small-med. white fsp phenocrysts on average, commonly 5-7% within the darker coloured intervals. Rare mafic lithic fragments ranging in size from < 1 x 1cm to 1 x 2-3cm, generally subangular.	137.45	138.20	0.75	NIL	NIL	104.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			139.64	140.31	0.67	15.000	NIL	105.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			145.59	146.57	0.98	10.000	NIL	87.000	NIL	3.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			154.39	154.96	0.57	75.000	7.000	53.000	0.400	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			155.18	155.58	0.40	15.000	40.000	148.000	0.400	NIL	NIL	NIL	NIL	NIL	NIL	NIL	NIL
			159.13	159.74	0.61	NIL	NIL	105.000	NIL	NIL	NIL	60.000	NIL	NIL	NIL	NIL	NIL
			169.43	169.77	0.34	70.000	5.000	68.000	0.400	2.000	NIL	71.000	NIL	NIL	NIL	NIL	NIL
			169.77	170.09	0.32	15.000	4.000	71.000	NIL	4.000	NIL	NIL	NIL	NIL	NIL	NIL	NIL
		ALTERATION: Weakly-mod. sericitized throughout, trace 1% Py. Weakly sheared and k-spar altered above 137.8. Very weak k-spar alteration from 139.60-140.2.															
		STRUCTURE: Foliation 60-70 to CA above 142.5. 70 to CA from 143-151m. Variable from 65-75 to CA from 151-155m.															
		145.9: 2-3cm wide Qtz-calcite veinlet.															
		ALTERATION: 5-7% masses of fine tourmaline, trace Py.															

Nuinsco Resources Limited

DIAMOND DRILL LOG

PROPERTY: Richardson

HOLE No.: NR9620

Page 5

		ASSAYS												
FROM	TO	LITHOLOGICAL DESCRIPTION	FROM	TO	WIDTH	Au ppb	Cu ppm	Zn ppm	Ag ppm	Pb ppm	Co ppm	Ni ppm	Pt ppb	Pb ppb
		STRUCTURE: Vein at 25 to CA.												
		.												
		154.40 to 154.95: Sheared chlorite sericite altered interval with 40-45% foliation parallel qtz-calcite veinlets.												
		.												
		STRUCTURE: Shearing 60-70 to CA. Foliation 70-75 to CA below 155m.												
		.												
		155 to 159: Least felsic interval. 3-4% qtz eyes. 3-5% small-med. fsp phenocrysts. 30-40% fine mafic silicates, borderline andesitic.												
		.												
		169.5 to 170: Concordant qtz-calcite vein.												
		.												
		ALTERATION: 5% tourmaline occurring mostly between large masses of calcite and qtz. Trace Py. Strong sericite-Chl alteration of sheared wallrock inclusions.												
		.												
		STRUCTURE: Foliation below vein 60-70 to CA, averaging between 65 and 70 to CA.												
		.												
		170 to 172.21: Qtz-fsp dacite crystal tuff. 15-20% small-med. sized phenocrysts, some angular. Fsp generally smaller and more abundant than qtz eyes. Several 1 x 2cm mafic lithic fragments at 171.10. 172.21, end of hole.												
		.												
		ALTERATION: Feldspar phenocrysts calcite altered. Weak Chl-sericite alteration of fine groundmass.												

Nuinsco Resources Limited

DIAMOND DRILL LOG

PROPERTY: Richardson
HOLE No.: NR9620

 FROM TO LITHOLOGICAL DESCRIPTION FROM TO WIDTH Au ppb Cu ppm Zn ppm Ag ppm Pb ppm Co ppm Ni ppm Pt ppb Pb ppb

STRUCTURE: Vein at 169.5-170.0, occurs along top contact
of unit.

DOWN-HOLE SURVEY DATA

DEPTH	INCLINATION	BEARING
20.42	-53.00	
96.64	-50.00	
172.21	-47.00	



Rapport sur les travaux exécutés après l'enregistrement d'un claim

Loi sur les mines

N° de transaction

W9610.00056

ÉRLIS

(PI)

Les renseignements personnels contenus dans la présente formule sont recueillis en vertu de la Loi sur les mines et serviront à la correspondance. Adresser toute question sur la collecte de ces renseignements au chef provincial des terrains miniers, ministère du Développement du Nord et des Mines, 159, rue Cedar, 4^e étage, Sudbury (Ontario) P3E 6A5; téléphone : (705) 670-7264.

Directives



52D16SE0001 W9610.00056 RICHARDSON

*Not Recommended
Work Report
p. 2*

pour connaître les directives de dépôt des travaux

900

ports techniques et des cartes.
claims ayant fait l'objet des travaux.

Titulaire(s) enregistré(s) NUINSCO RESOURCES LIMITED		N° de client 176 866
Adresse 909 THE EAST MALL, ETOBICOKE		N° de téléphone 416 626-0470
Division des mines KENORA	Canton/secteur RICHARDSON / TAIT	N° de plan M ou G M2115/63827
Dates d'exécution des travaux du : March 1, 1996		au : March 31, 1996

Travaux exécutés (cocher un seul groupe de travaux)

Groupe de travaux	Genre
<input type="checkbox"/> Levé géotechnique	
<input checked="" type="checkbox"/> Travaux physiques, y compris forage	Diamond Drilling
<input type="checkbox"/> Réhabilitation	
<input type="checkbox"/> Autres travaux autorisés	
<input type="checkbox"/> Essais	
<input checked="" type="checkbox"/> Valeur transférée de la réserve	Transfer of credits to claims on TAIT TWP

Total des travaux d'évaluation réclamé sur le relevé des frais ci-annexé \$211,800 \$

Nota : Le ministre peut rejeter une partie ou la totalité des travaux d'évaluation présentés pour obtenir des crédits d'évaluation si le titulaire enregistré ne peut vérifier les dépenses réclamées sur le relevé des frais dans les trente jours suivant une demande de vérification.

Les personnes et la compagnie d'arpentage qui ont exécuté les travaux (donner le nom et l'adresse de l'auteur du rapport)

Nom	Adresse
PAUL JONES	RR2 OFF LAKE ROAD ENCO ON

(joindre une annexe au besoin)

Certification d'intérêt bénéficiaire * Voir la note n° 1 au verso

Je certifie qu'au moment où les travaux ont été exécutés, les claims dont il est question dans le présent rapport étaient enregistrés au nom de leur titulaire actuel ou détenus à titre bénéficiaire par l'actuel titulaire enregistré.	Date	Titulaire enregistré ou représentant (Signature)
--	------	--

Certification du rapport sur les travaux exécutés

Je certifie que j'ai une connaissance directe des faits exposés dans le présent rapport, pour avoir exécuté les travaux ou en avoir constaté l'exécution avant ou après leur achèvement. Je certifie aussi que le rapport ci-annexé est exact.

Nom et adresse du certificateur PAUL P. JONES CONSULTANT TO NUINSCO		
N° de téléphone 416 626-0470	Date April 12 / 96	Certifié par (signature) <i>[Signature]</i>

Réservé au ministère

Valeur totale des crédits enregistrés	Date d'enregistrement APRIL 15, 1996	Registreur de claims <i>[Signature]</i>	Cachet reçu RENOWNED MINING ENGINEER APR 15 1996 AM 7 8 9 10 11 12
	Date de l'approbation prévue JULY 14, 1996	Date d'approbation JULY 14, 1996	
	Date d'envoi de l'avis de modification May 31, 1996		

Report Number for Applicable Claims	Claim Number (see Note 2)	Number of Claim Labels	Value of Assessment Work Done on this Claim	Value Applied to this Claim	Value Assigned from this Claim	Amount to be Credited as a Future Date
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	1161585	8	3200.00	3200.00		
	1161584	1	400.00	400.00		
	1161583	6	2,140.00	2,140.00		
	1161582	3	1,200.00	1,200.00		
	1161581	4	1,600.00	1,600.00		
	1161580	4	1,600.00	1,600.00		
	1161579	8	3,200.00	3,200.00		
	1161578	16	6,400.00	6,400.00		
	1161577	8	3,200.00	3,200.00		
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	1161560	16	6,400.00	6,400.00		
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	1161547	2	800.00	800.00		
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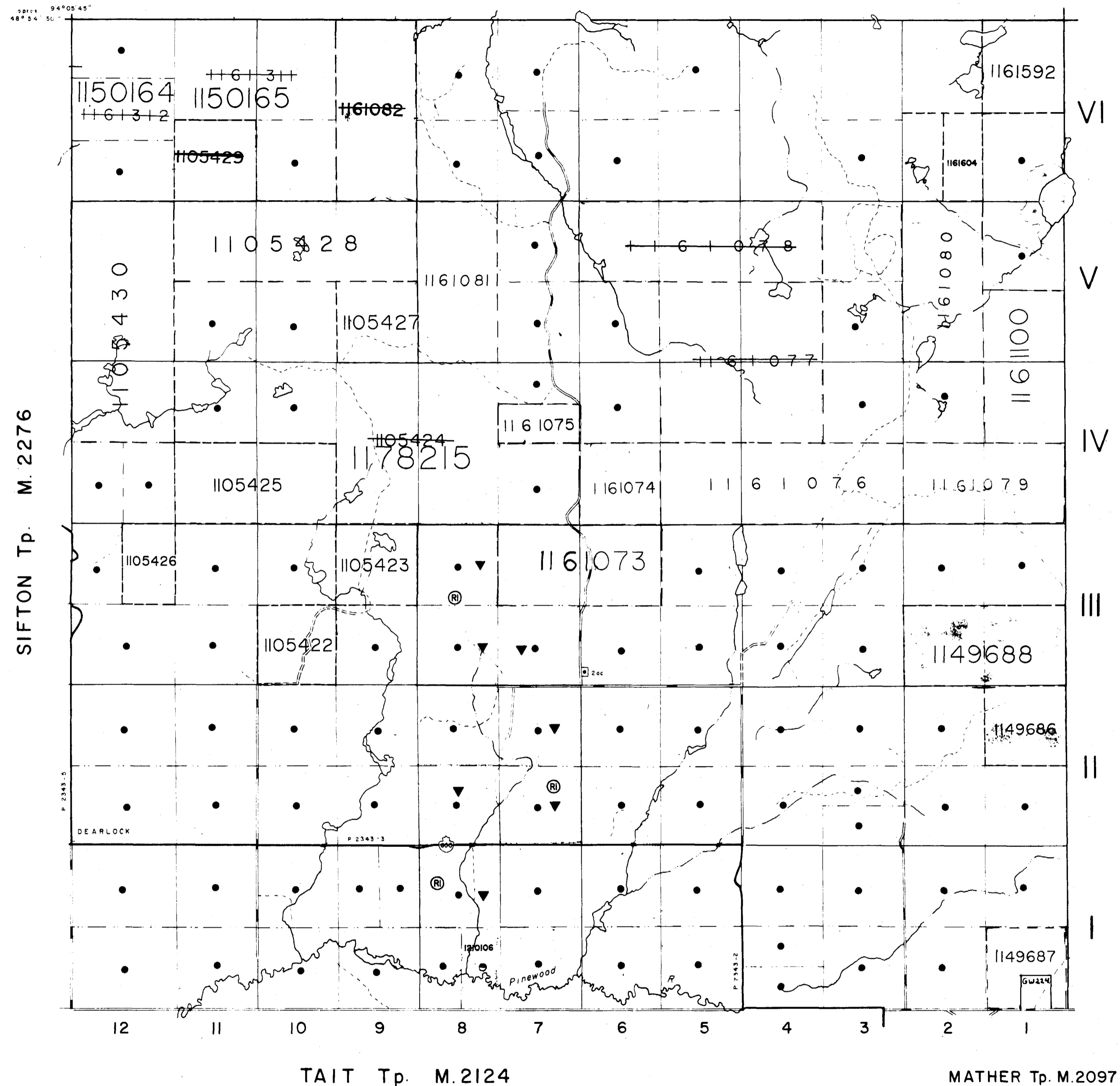
NOTES

400' surface rights reservation along the shores of all lakes and rivers.

This Township lies within the Corporation of the Township of Chapple.

- W-K-43/93 SR&MR JUNE 4/93
- W-K-8/96 NWR MRO JAN. 26/96 195150-TO FILE #
- O-K-13/96 NWR MRO MAY 9/96 195150.

ROWE Tp. M.2118



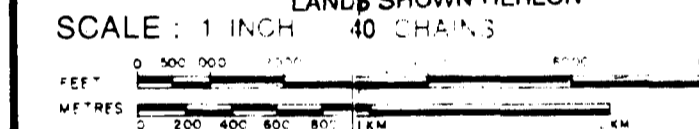
LEGEND

- HIGHWAY AND ROUTE No.
- OTHER ROADS
- TRAILS
- SURVEYED LINES
- TOWNSHIPS, BASE LINES, ETC.
- LOTS, MINING CLAIMS, PARCELS, ETC.
- UNSURVEYED LINES
- LOT LINES
- PARCEL BOUNDARY
- MINING CLAIMS ETC.
- RAILWAY AND RIGHT OF WAY
- UTILITY LINES
- NON-PERENNIAL STREAM
- FLOODING OR FLOODING RIGHTS
- SUBDIVISION
- ORIGINAL SHORELINE
- MARSH (R. MUSKOGEE)
- MINES

DISPOSITION OF CROWN LANDS

TYPE OF DOCUMENT	SYMBOL
PATENT SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LEASE SURFACE & MINING RIGHTS	
SURFACE RIGHTS ONLY	
MINING RIGHTS ONLY	
LICENCE OF OCCUPATION	
CROWN LAND SALE	
ORDER-IN-COUNCIL	
RESERVATION	
CANCELLED	
SAND & GRAVEL	

THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.



ACRES	HECTARES
40	16

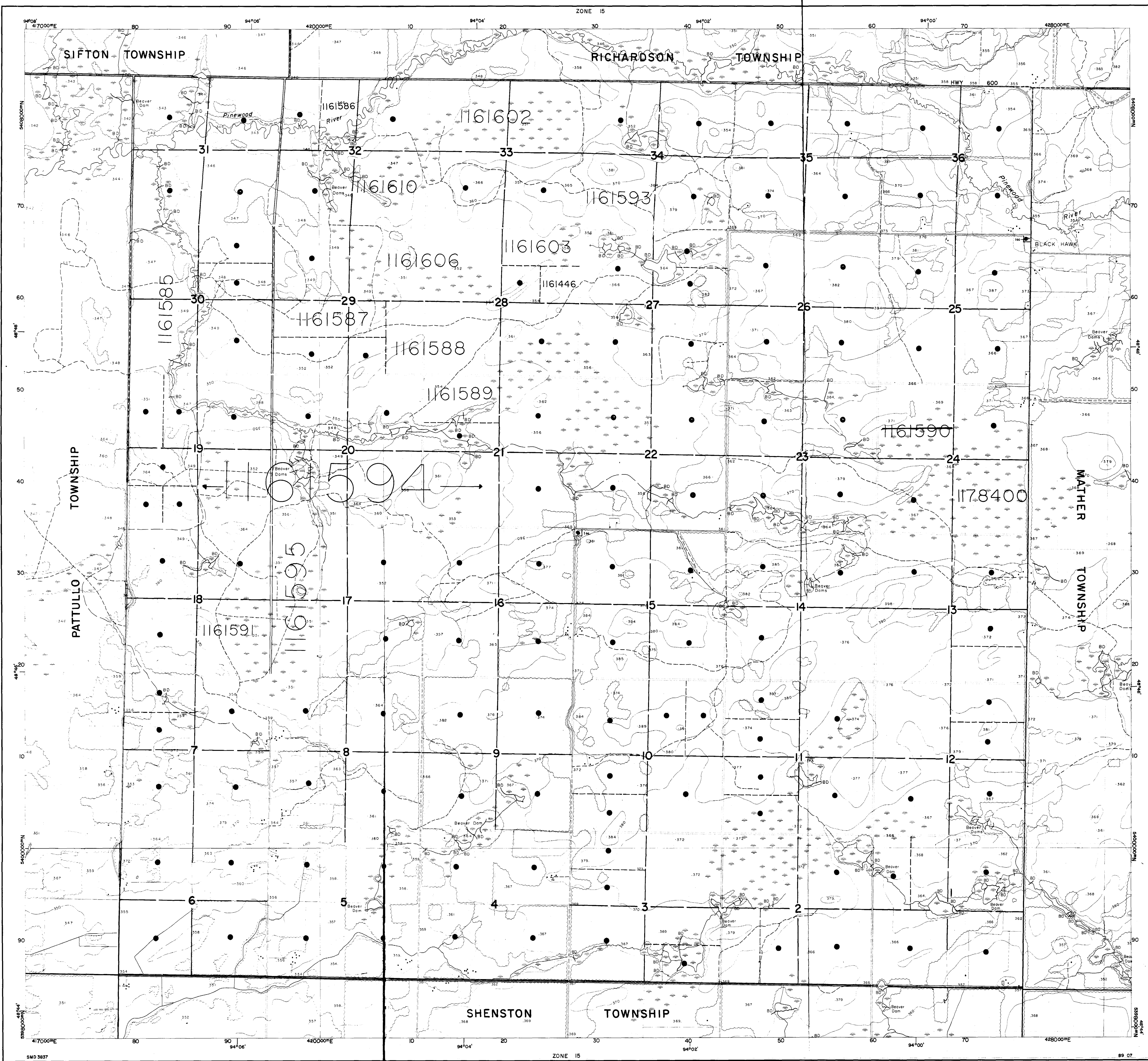
DATE OF ISSUE
JAN 13 1997
KENORA MINING DIVISION

TOWNSHIP
RICHARDSON
DISTRICT
RAINY RIVER
MINING DIVISION
KENORA

Ministry of Natural Resources
Ontario Surveys and Mapping Branch
Date: 6-7-97 Plan No.

M.2115

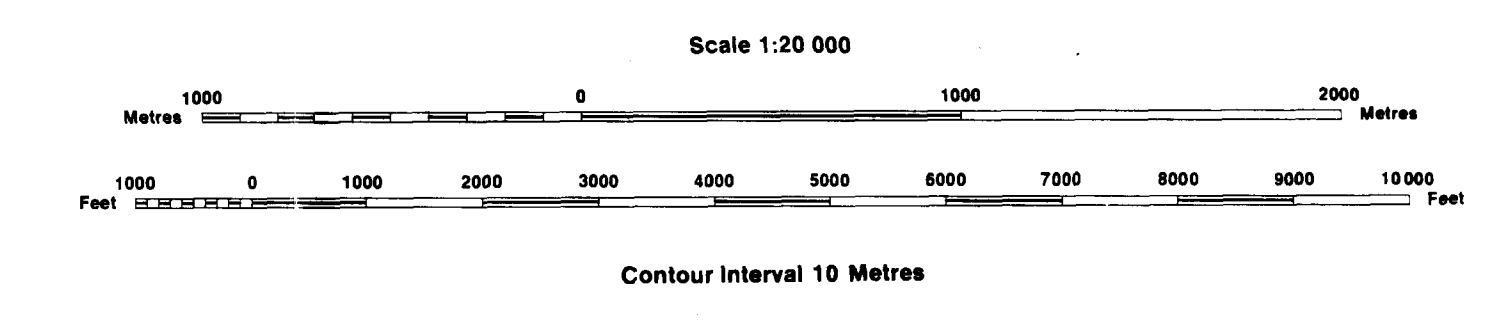




INDEX TO LAND DISPOSITION

PLAN
G-3837
 TOWNSHIP
TAIT

M.N.R. ADMINISTRATIVE DISTRICT
FORT FRANCES
 MINING DIVISION
KENORA
 LAND TITLES/REGISTRY DIVISION
RAINY RIVER



THE INFORMATION THAT APPEARS ON THIS MAP HAS BEEN COMPILED FROM VARIOUS SOURCES, AND ACCURACY IS NOT GUARANTEED. THOSE WISHING TO STAKE MINING CLAIMS SHOULD CONSULT WITH THE MINING RECORDER, MINISTRY OF NORTHERN DEVELOPMENT AND MINES, FOR ADDITIONAL INFORMATION ON THE STATUS OF THE LANDS SHOWN HEREON.

AREAS WITHDRAWN FROM DISPOSITION
 MRO - Mining Rights Only
 SRO - Surface Rights Only
 M + S - Mining and Surface Rights

SYMBOLS

- Boundary
- Township, Meridian, Baseline
- Road allowance: surveyed
- shcreline
- Lot/Concession: surveyed
- unsurveyed
- Parcel: surveyed
- unsurveyed
- Right-of-way: road
- railway
- utility
- Reservation
- Cliff, Pit, Pile
- Contour
- Interpolated
- Approximate
- Depression
- Control point (horizontal)
- Flooded land
- Mine head frame
- Pipeline (above ground)
- Railway: single track
- double track
- abandoned
- Road: highway, county, township
- access
- trail, bush
- Shoreline (original)
- Transmission line
- Wooded area

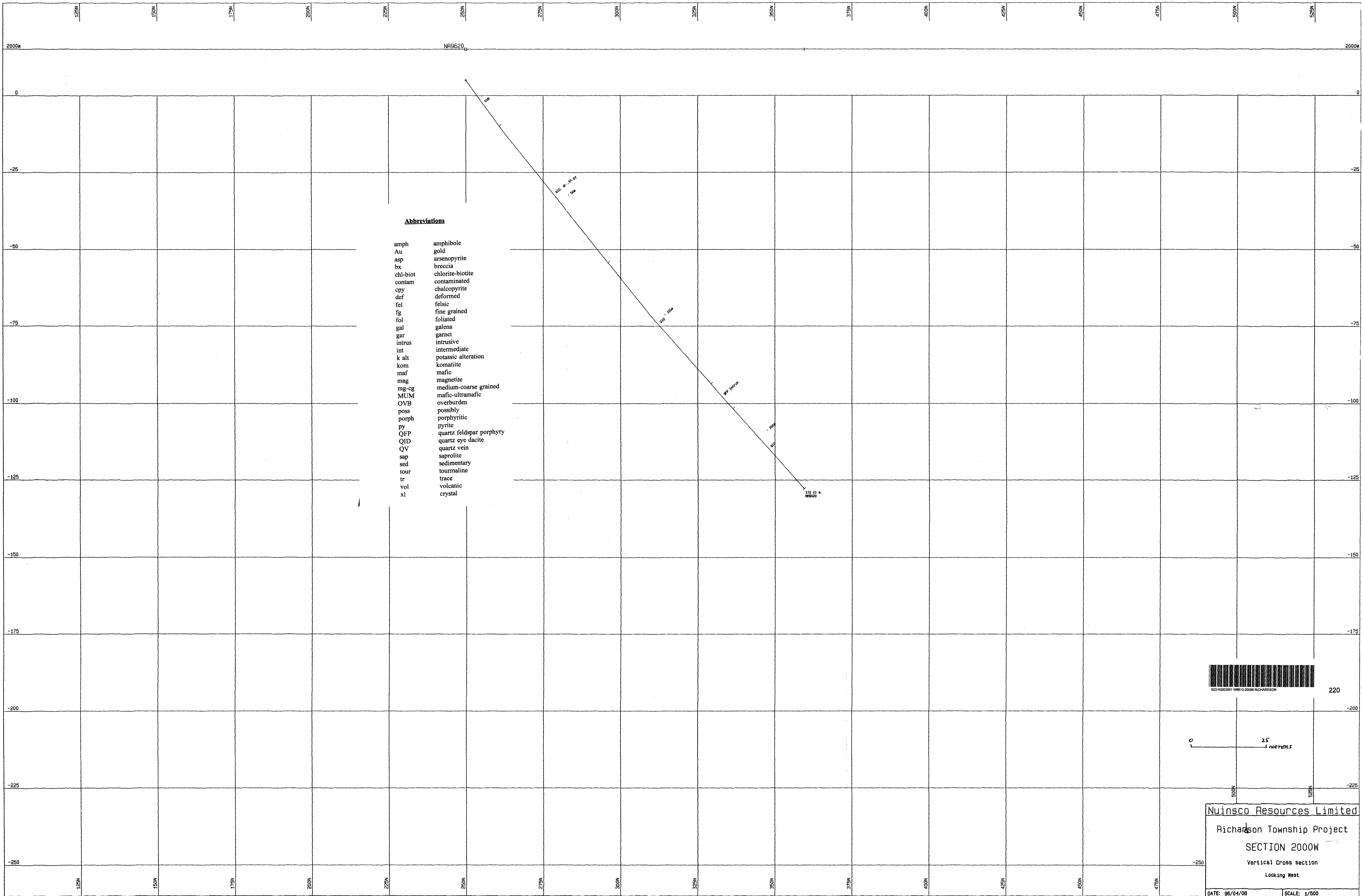
NOTES

400' SURFACE RIGHTS RESERVATION ALONG THE SHORES OF ALL LAKES AND RIVERS.
 THIS TOWNSHIP LIES WITHIN THE CORPORATION OF THE TOWNSHIP OF CHAPPEL.

DATE OF ISSUE
JAN 13 1987
 KENORA
 MINING DIVISION

DISPOSITION OF CROWN LANDS

- Patent
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only
- Lease
- Surface & Mining Rights
- Surface Rights Only
- Mining Rights Only
- Licence of Occupation
- Order-in-Council
- Cancelled
- Reservation
- Sand & Gravel



Abbreviations

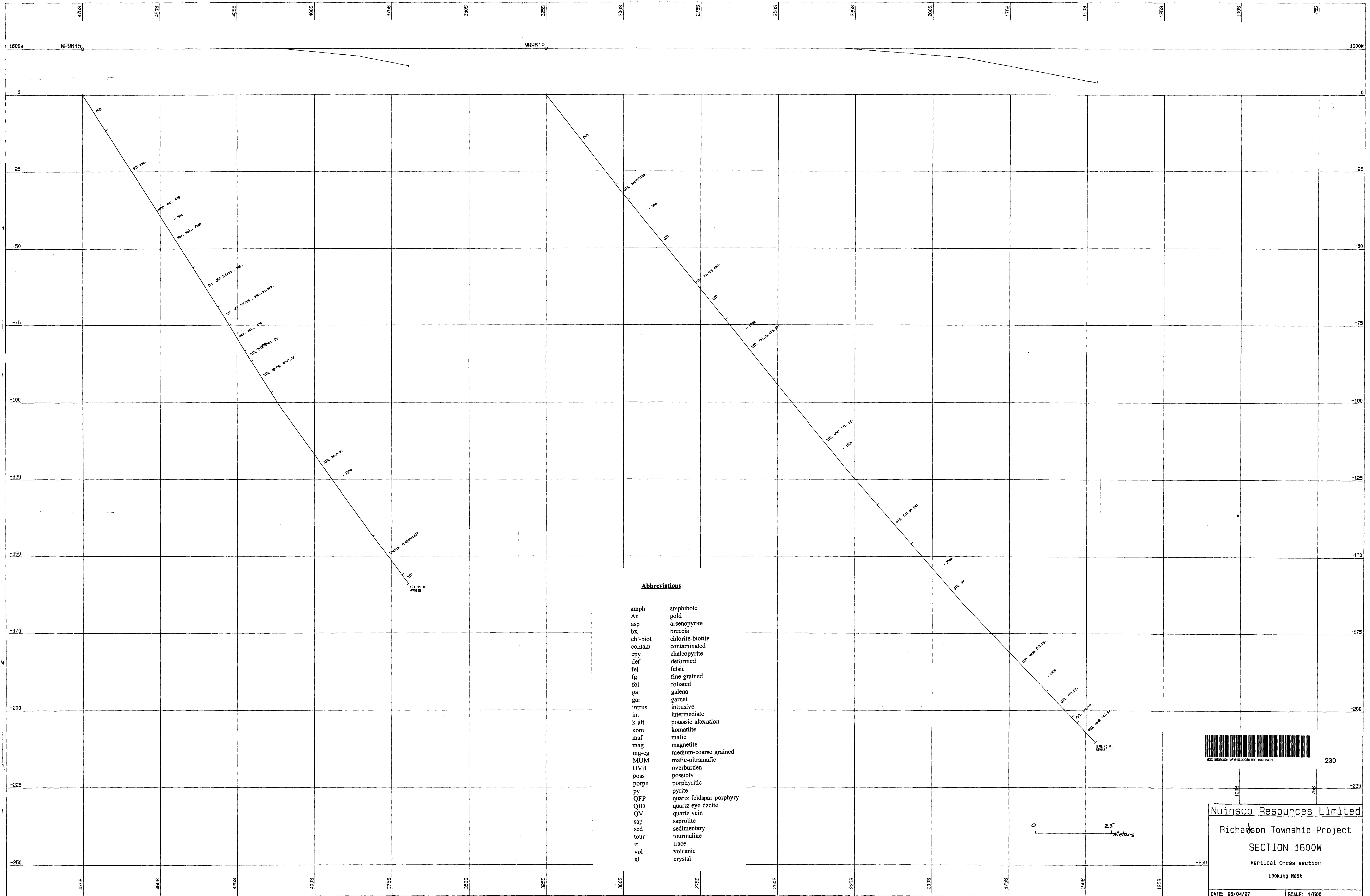
- | | |
|----------|--------------------------|
| amph | amphibole |
| Au | gold |
| asp | arsenopyrite |
| bx | breccia |
| chl-biot | chlorite-biotite |
| contam | contaminated |
| cpy | chalcopyrite |
| def | deformed |
| fel | felsic |
| fg | fine grained |
| fol | foliated |
| gal | galena |
| gar | garnet |
| intrus | intrusive |
| int | intermediate |
| k alt | potassic alteration |
| kom | komatiite |
| maf | mafic |
| mag | magnetite |
| mg-cg | medium-coarse grained |
| MUM | mafic-ultramafic |
| OVB | overburden |
| poss | possibly |
| porph | porphyritic |
| py | pyrite |
| QFP | quartz feldspar porphyry |
| QID | quartz eye dacite |
| QV | quartz vein |
| sap | saprolite |
| sed | sedimentary |
| tour | tourmaline |
| tr | trace |
| vol | volcanic |
| xl | crystal |



220

0 25 METERS

Nuinsco Resources Limited
 Richardson Township Project
 SECTION 2000W
 Vertical Cross section
 Looking West
 DATE: 95/04/08 SCALE: 1/500

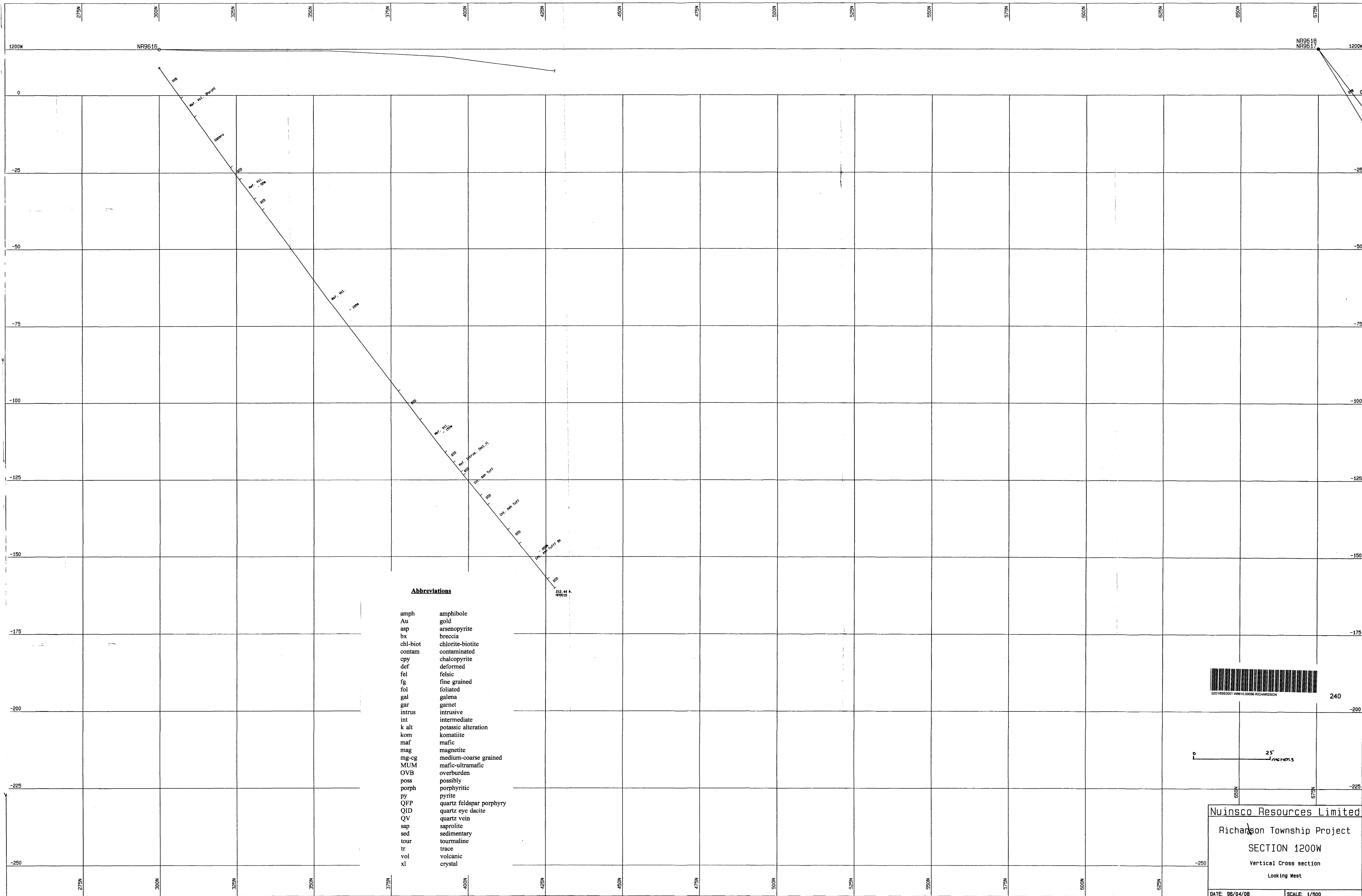


Abbreviations

amph	amphibole
Au	gold
asp	arsenopyrite
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
gal	galena
gar	garnet
intrus	intrusive
int	intermediate
k alt	potassic alteration
kom	komatiite
maf	mafic
mag	magnetite
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
poss	possibly
porph	porphyritic
py	pyrite
QFP	quartz feldspar porphyry
QID	quartz eye dacite
QV	quartz vein
sap	saprolite
sed	sedimentary
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal

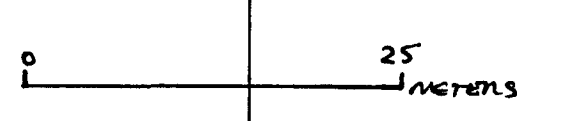


Nuinsco Resources Limited
 Richardson Township Project
 SECTION 1600W
 Vertical Cross section
 Looking West
 DATE: 96/04/07 SCALE: 1/500

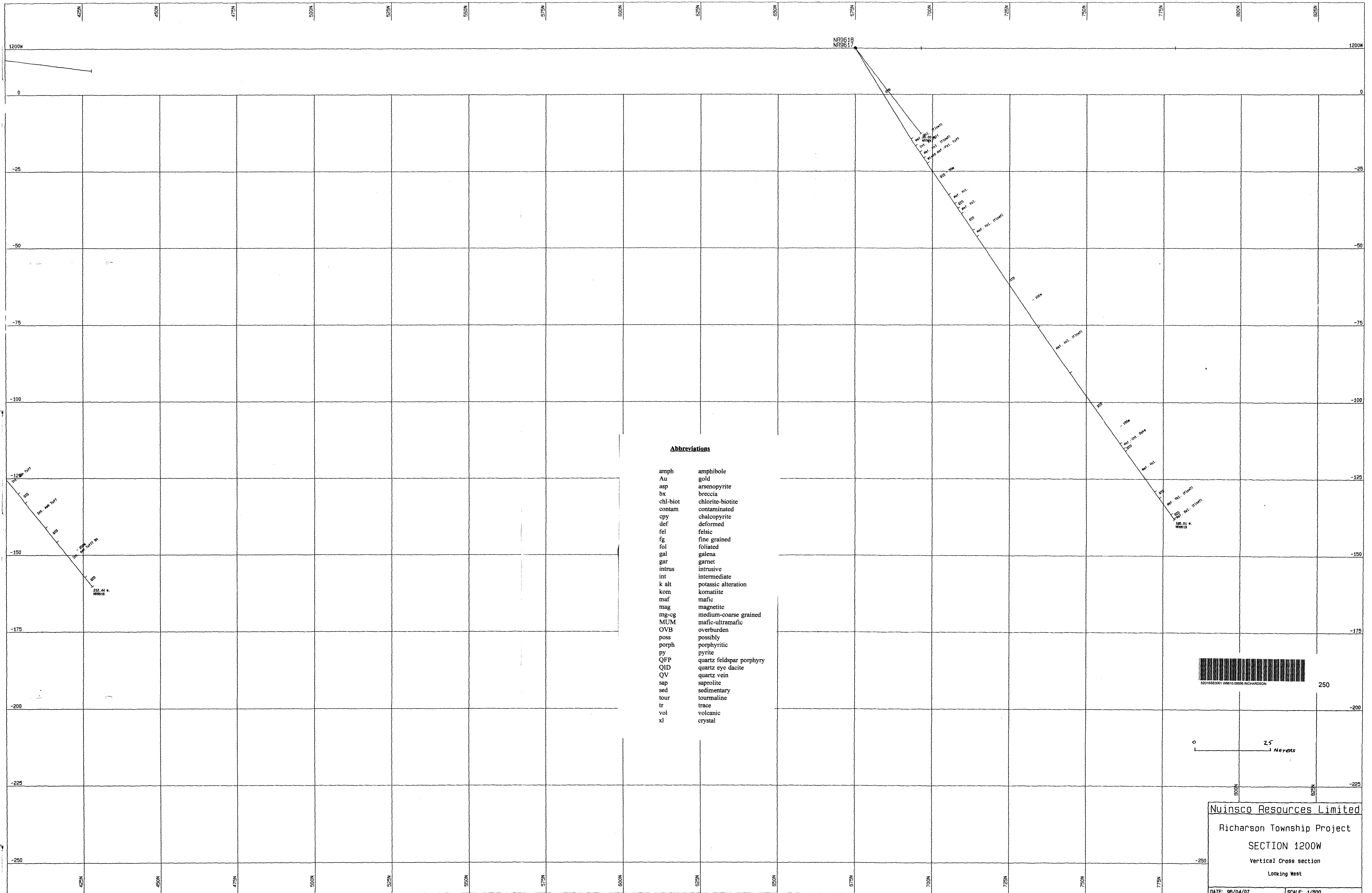


Abbreviations

- | | |
|----------|--------------------------|
| amph | amphibole |
| Au | gold |
| asp | arsenopyrite |
| bx | breccia |
| chl-biot | chlorite-biotite |
| contam | contaminated |
| cpy | chalcopyrite |
| def | deformed |
| fel | felsic |
| fg | fine grained |
| fol | foliated |
| gal | galena |
| gar | garnet |
| intrus | intrusive |
| int | intermediate |
| k alt | potassic alteration |
| kom | komatiite |
| maf | mafic |
| mag | magnetite |
| mg-cg | medium-course grained |
| MUM | mafic-ultramafic |
| OVB | overburden |
| poss | possibly |
| porph | porphyritic |
| py | pyrite |
| QFP | quartz feldspar porphyry |
| QID | quartz eye dacite |
| QV | quartz vein |
| sap | saprolite |
| sed | sedimentary |
| tour | tourmaline |
| tr | trace |
| vol | volcanic |
| xl | crystal |



Nuinsco Resources Limited
 Richardson Township Project
 SECTION 1200W
 Vertical Cross section
 Looking West
 DATE: 96/04/08 SCALE: 1/500



Abbreviations

amph	amphibole
Au	gold
asp	arsenopyrite
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
gal	galena
gar	garnet
intrus	intrusive
int	intermediate
k alt	potassic alteration
kom	komatiite
maf	mafic
mag	magnetite
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
poss	possibly
porph	porphyritic
py	pyrite
QFP	quartz feldspar porphyry
QID	quartz eye dacite
QV	quartz vein
sap	saprotic
sed	sedimentary
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal



0 25 Meters

Nuinsco Resources Limited

Richardson Township Project

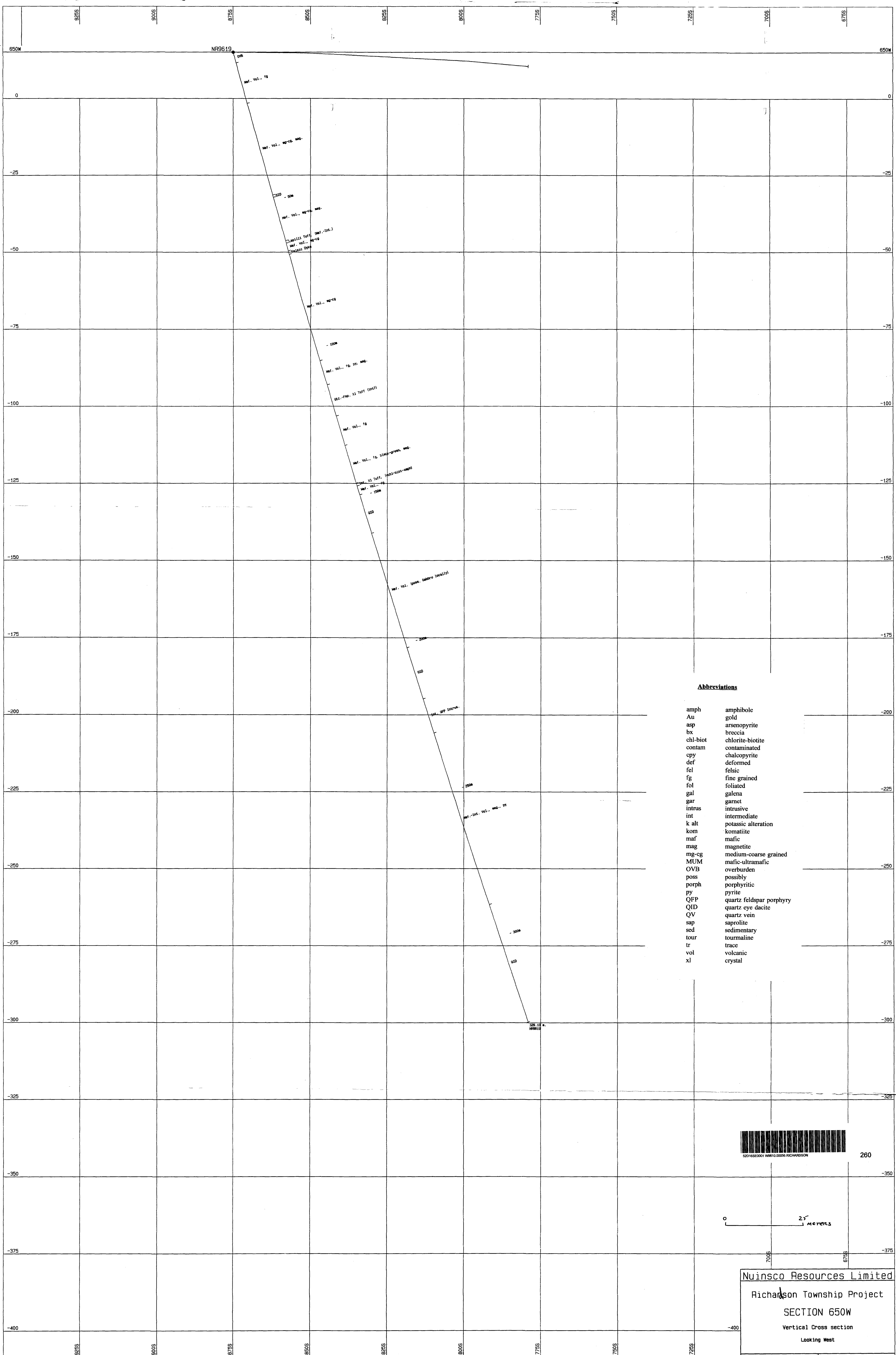
SECTION 1200W

Vertical Cross section

Looking West

DATE: 98/04/07

SCALE: 1/500



Abbreviations

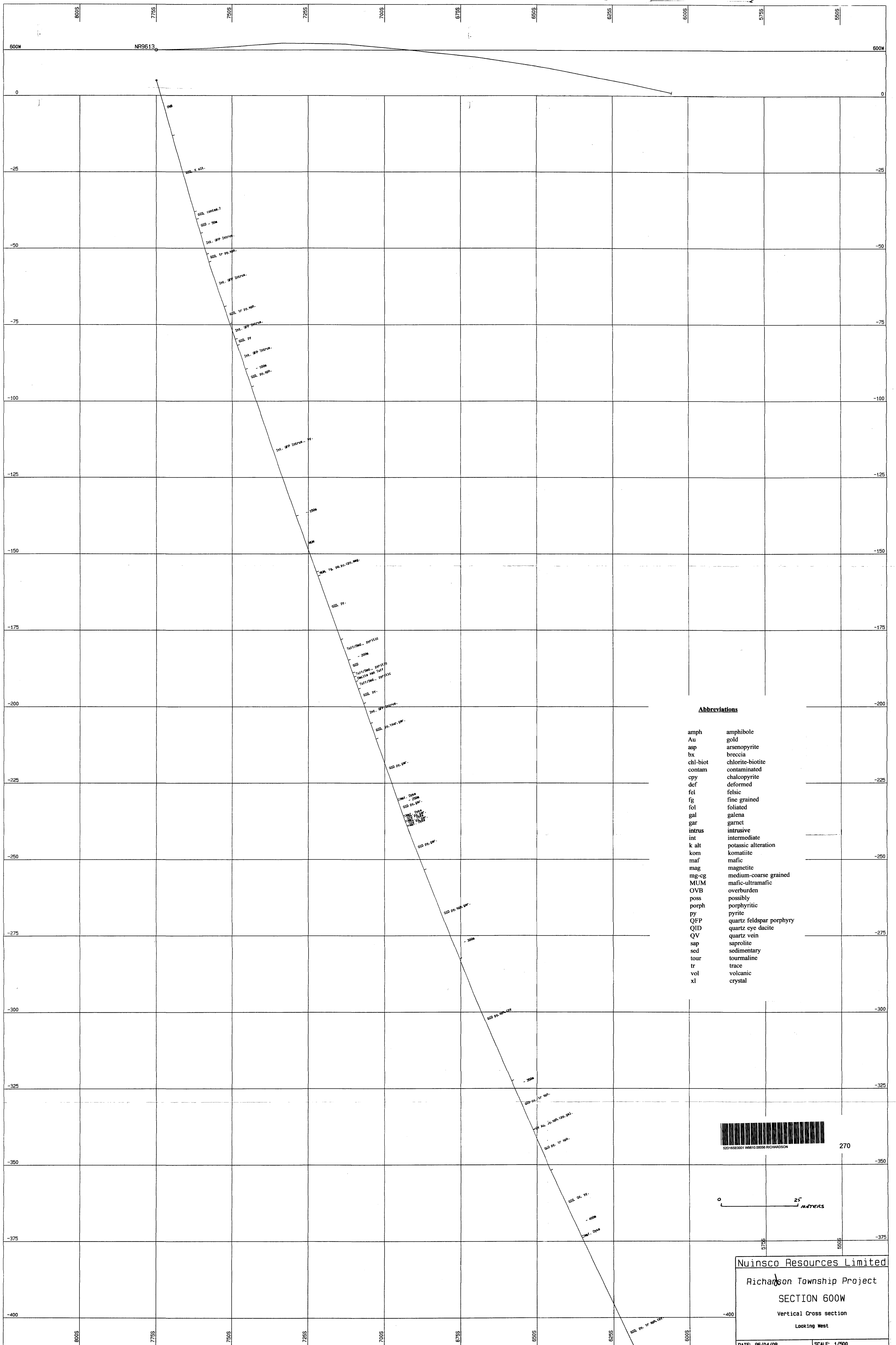
amph	amphibole
Au	gold
asp	arsenopyrite
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
gal	galena
gar	garnet
intrus	intrusive
int	intermediate
k alt	potassic alteration
kom	komatiite
maf	mafic
mag	magnetite
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
poss	possibly
porph	porphyritic
py	pyrite
QFP	quartz feldspar porphyry
QID	quartz eye dacite
QV	quartz vein
sap	saprolite
sed	sedimentary
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal



260



Nuinsco Resources Limited
 Richardson Township Project
 SECTION 650W
 Vertical Cross section
 Looking West
 DATE: 96/04/08 SCALE: 1/500

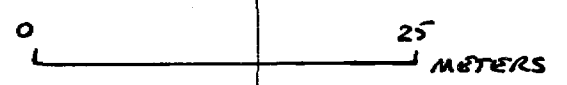


Abbreviations

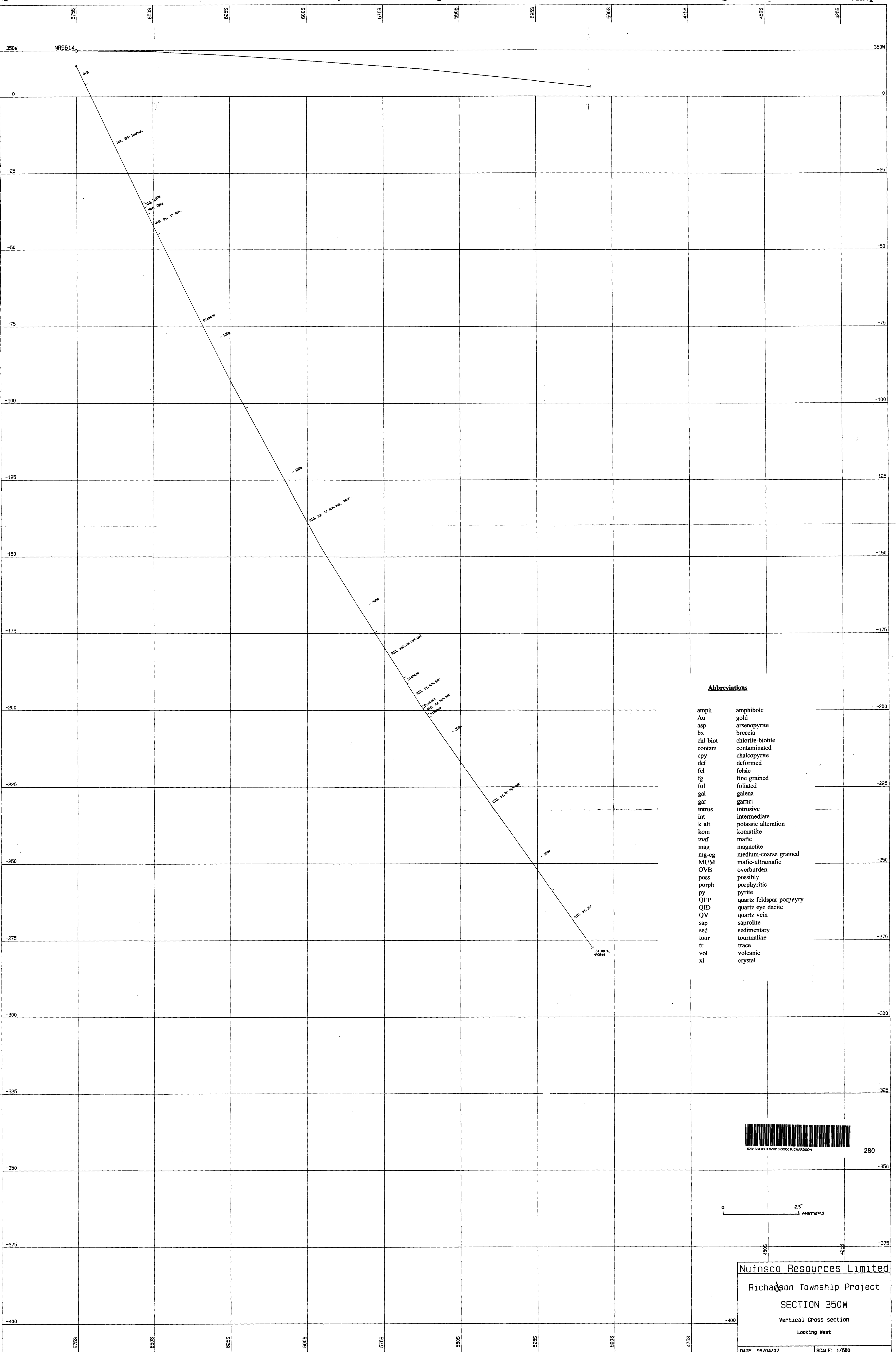
amph	amphibole
Au	gold
asp	arsenopyrite
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
gal	galena
gar	garnet
intrus	intrusive
int	intermediate
k alt	potassic alteration
kom	komatiite
maf	mafic
mag	magnetite
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
poss	possibly
porph	porphyritic
py	pyrite
QFP	quartz feldspar porphyry
QID	quartz eye dacite
QV	quartz vein
sap	saprolite
sed	sedimentary
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal



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Nuinsco Resources Limited
 Richardson Township Project
 SECTION 600W
 Vertical Cross section
 Looking West
 DATE: 96/04/08 SCALE: 1/500



Abbreviations

amph	amphibole
Au	gold
asp	arsenopyrite
bx	breccia
chl-biot	chlorite-biotite
contam	contaminated
cpy	chalcopyrite
def	deformed
fel	felsic
fg	fine grained
fol	foliated
gal	galena
gar	garnet
intrus	intrusive
int	intermediate
k alt	potassic alteration
kom	komatiite
maf	mafic
mag	magnetite
mg-cg	medium-coarse grained
MUM	mafic-ultramafic
OVB	overburden
poss	possibly
porph	porphyritic
py	pyrite
QFP	quartz feldspar porphyry
QID	quartz eye dacite
QV	quartz vein
sap	saprolite
sed	sedimentary
tour	tourmaline
tr	trace
vol	volcanic
xl	crystal



Nuinsco Resources Limited
 Richardson Township Project
 SECTION 350W
 Vertical Cross section
 Looking West
 DATE: 96/04/07 SCALE: 1/500

Lot 7

Lot 6

Lot 5

NR-96-17 (dip -55°, 0 m)
NR-96-18 (dip -60°, 185.01 m)

NR-96-20 (dip -55°, 172.21 m)

NR-96-16 (dip -55°, 212.50 m)

Concession II

Lot 7 Concession II South Half

Lot 6 Concession II South Half

Lot 5 Concession II South Half

Lot 7 Concession I North Half

Lot 6 Concession I West Half

Lot 6 Concession I East Half

Lot 5 Concession I North Half

NR-96-12 (dip -55°, 276.45 m)

NR-96-15 (dip -55°, 191.11 m)

Concession I

(dip -65°, 334 m)

NR-96-14

NR-96-13 (dip -75°, 474.2 m)

NR-96-19
(dip -75°, 323.93 m)



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Map 1

Nuinsco
RESOURCES LIMITED

908 The East Mall
Etobicoke, Ontario
M9B 6K2

Project: RAINY RIVER PROJECT Area: Richardson Township, Ontario

**Richardson Township Project
Drill Plan**

0 100 200 M

Completed by: _____ Drawn by: _____ Date Drawn: 7/1/96
Rev'd: _____ File: _____